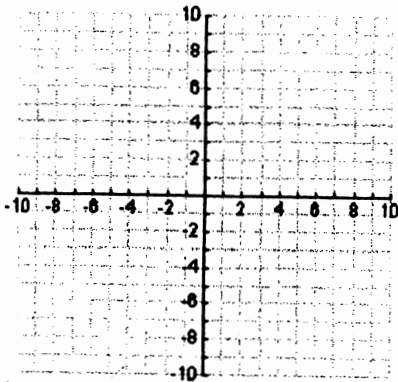
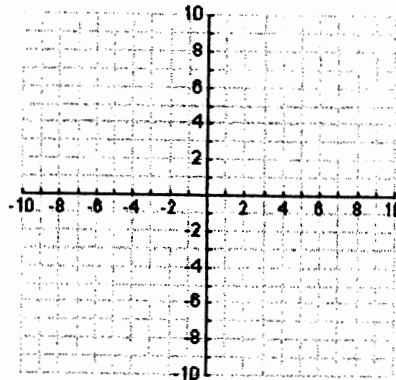


Quadratic Family

$$y = x^2$$



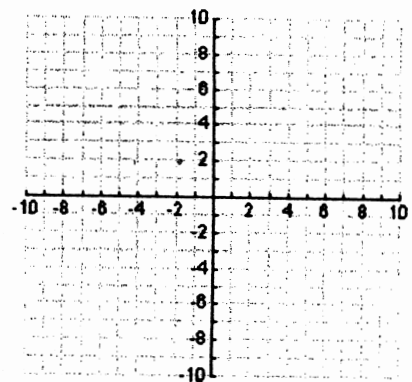
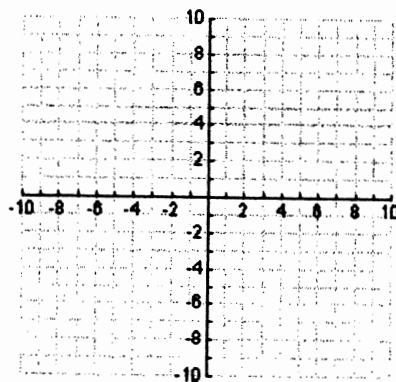
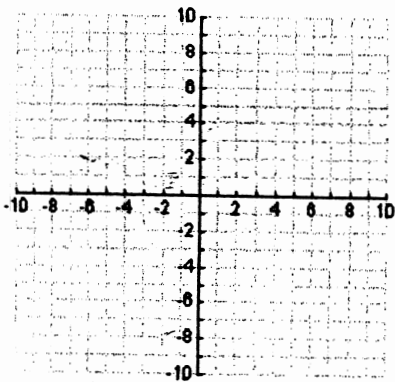
$$y = -x^2$$



1. $y = x^2 + 4$

2. $y = x^2 - 4$

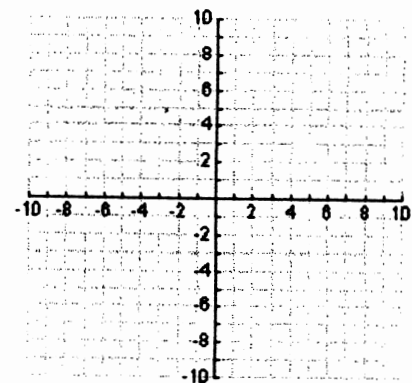
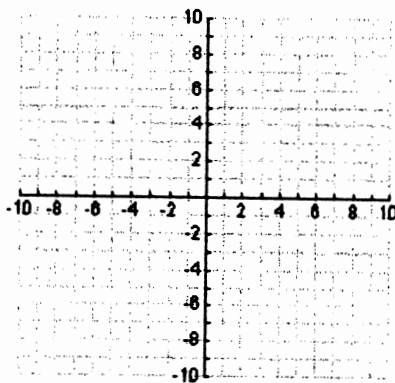
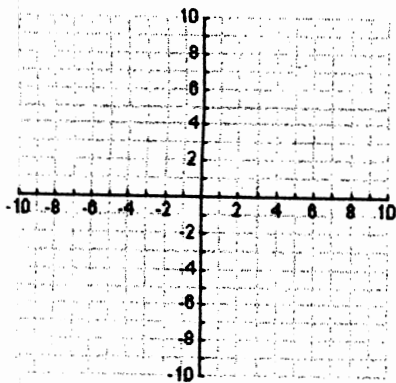
3. $y = (x+4)^2$



4. $y = (x-4)^2$

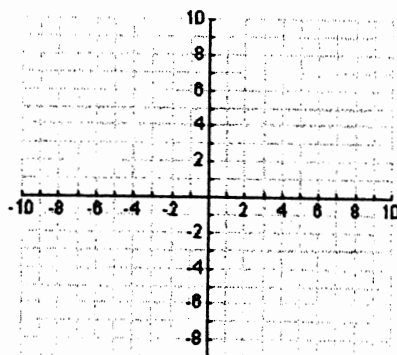
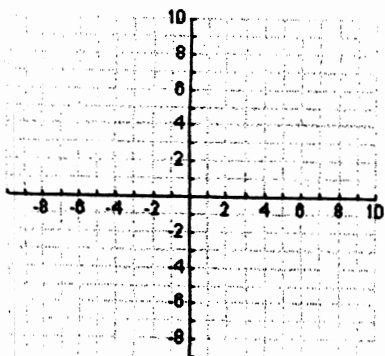
5. $y = 2x^2$

6. $y = \frac{1}{2}x^2$



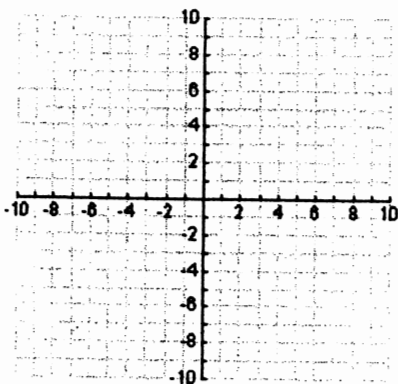
7. $y = (x+4)^2 - 3$

8. $y = -2(x-4)^2 + 3$

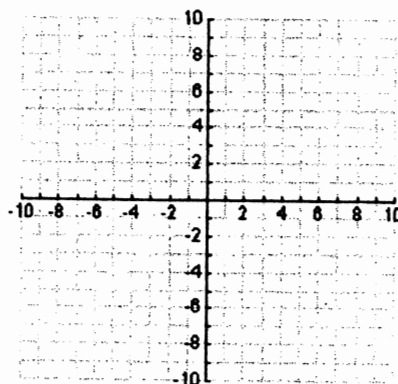


Absolute Value Family

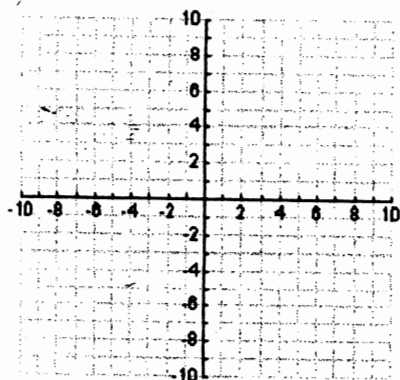
$$y = |x|$$



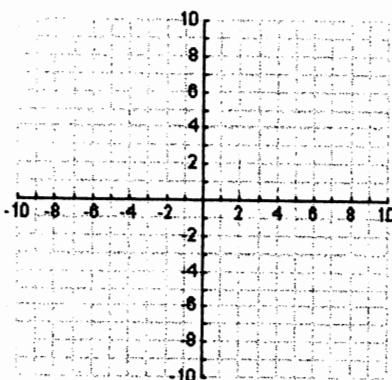
$$y = -|x|$$



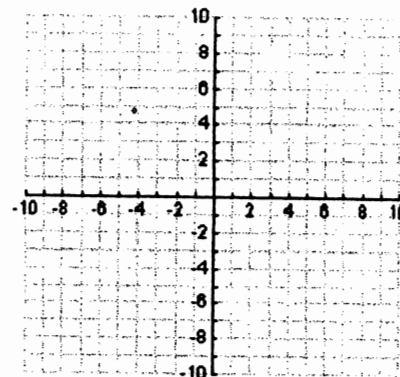
1. $y = |x| + 4$



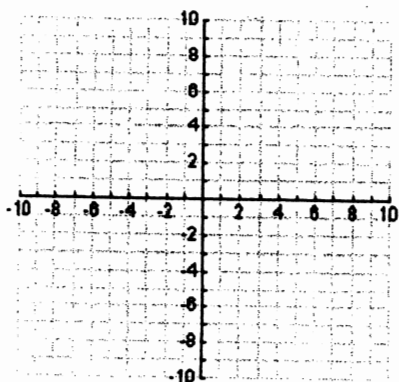
2. $y = |x| - 4$



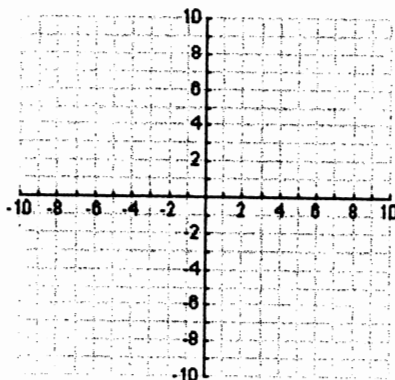
3. $y = |x + 4|$



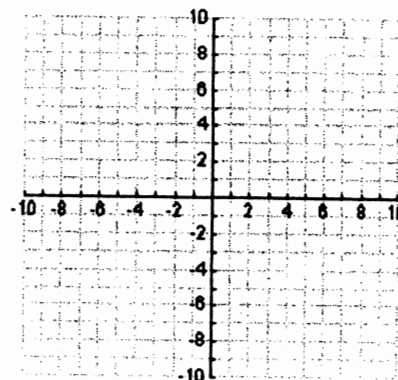
4. $y = |x - 4|$



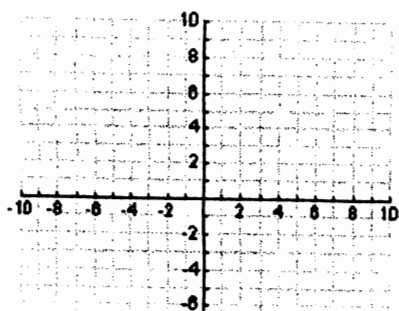
5. $y = 2|x|$



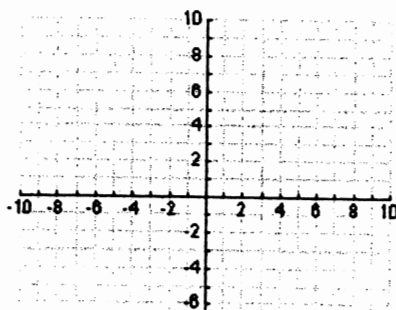
6. $y = \frac{1}{2}|x|$



7. $y = |x + 4| - 3$

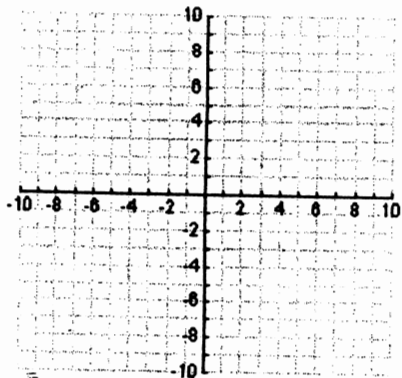


8. $y = -2|x - 4| + 3$

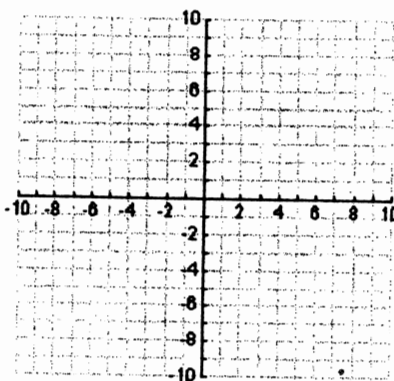


Linear Family

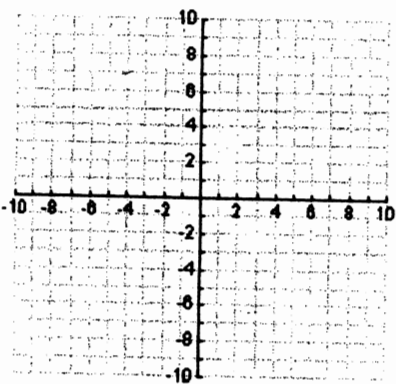
$$y = x$$



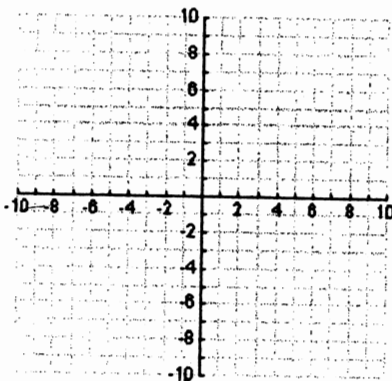
$$y = -x$$



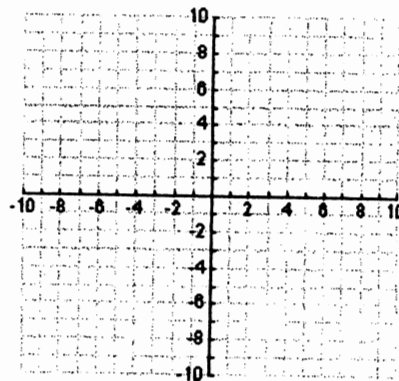
1. $y = x + 4$



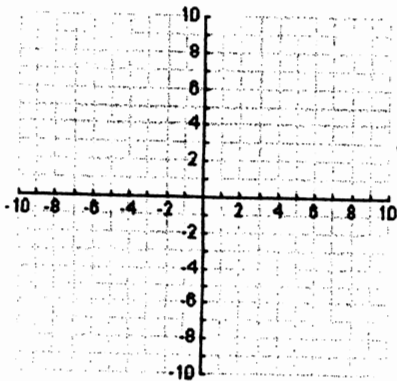
2. $y = x - 4$



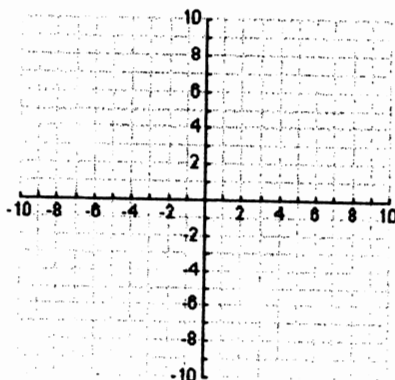
3. $y = 2x$



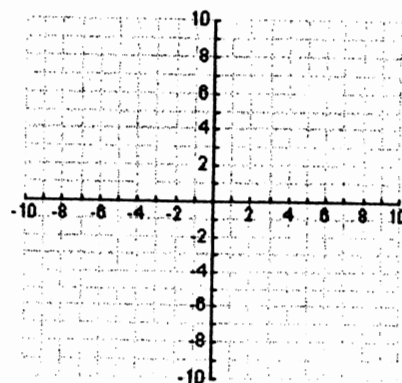
4. $y = \frac{1}{2}x$



5. $y = (x + 4) - 3$

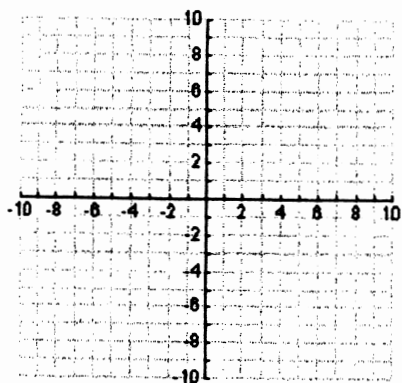


6. $y = -2(x - 4) + 3$

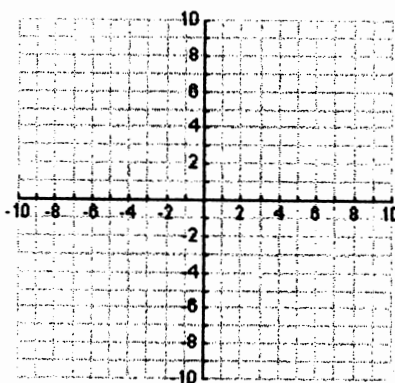


Cubic Family

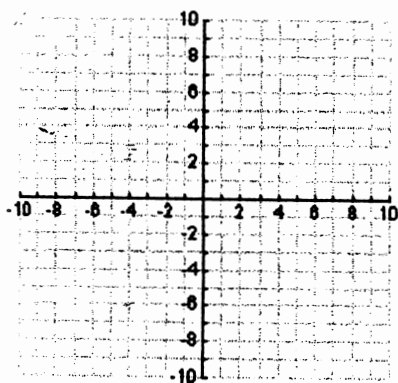
$$y = x^3$$



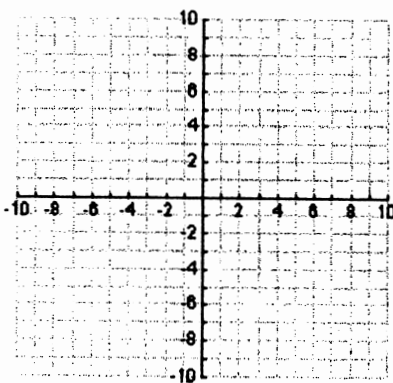
$$y = -x^3$$



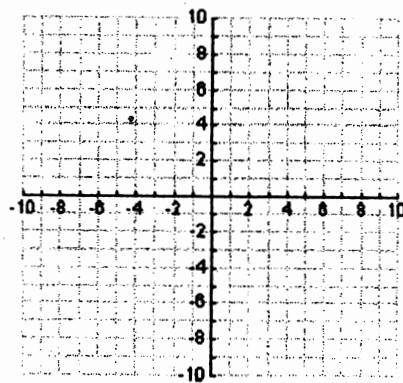
1. $y = x^3 + 4$



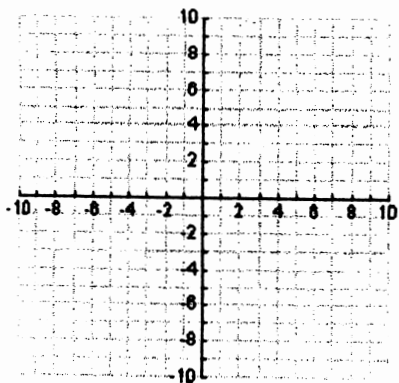
2. $y = x^3 - 4$



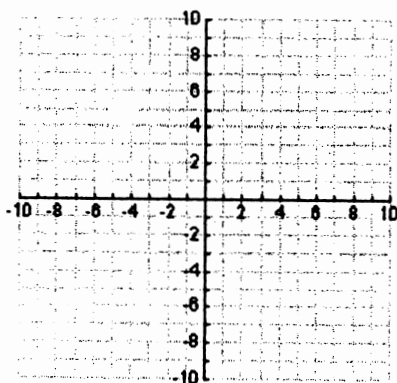
3. $y = (x+4)^3$



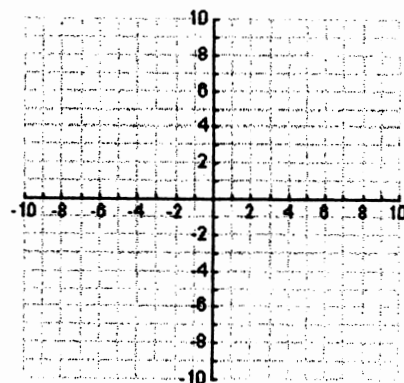
4. $y = (x-4)^3$



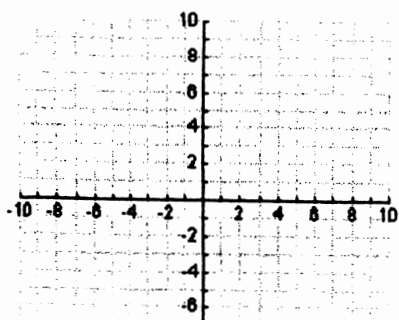
5. $y = 2x^3$



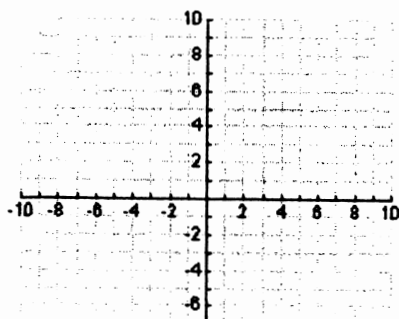
6. $y = \frac{1}{2}x^3$



7. $y = (x+4)^3 - 3$

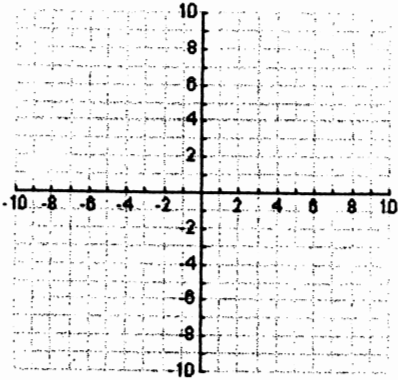


8. $y = -2(x-4)^3 + 3$

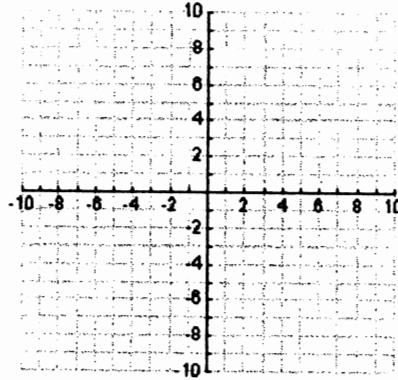


Radical Family

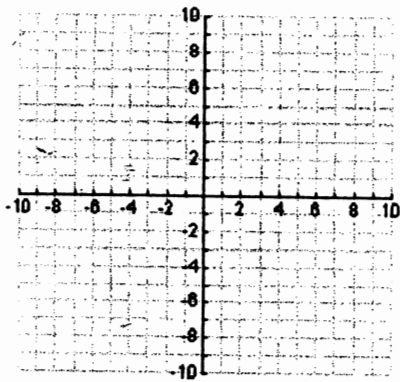
$$y = \sqrt{x}$$



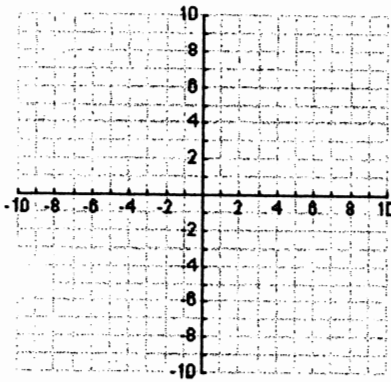
$$y = -\sqrt{x}$$



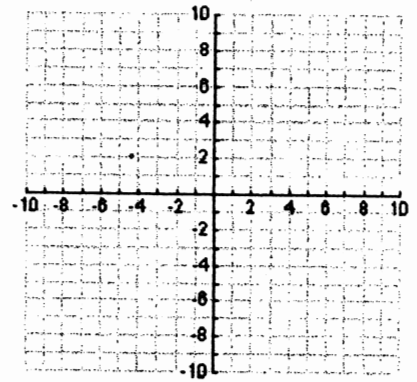
1. $y = \sqrt{x+4}$



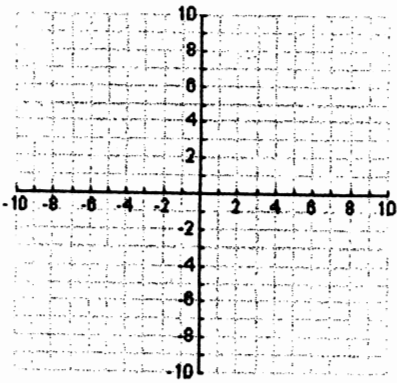
2. $y = \sqrt{x}-4$



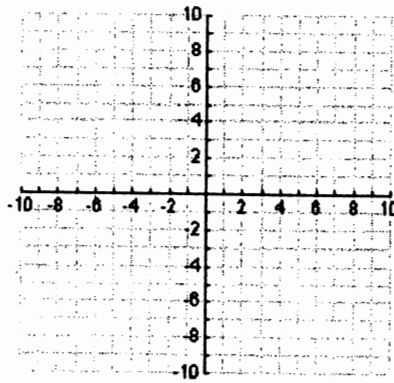
3. $y = \sqrt{x+4}$



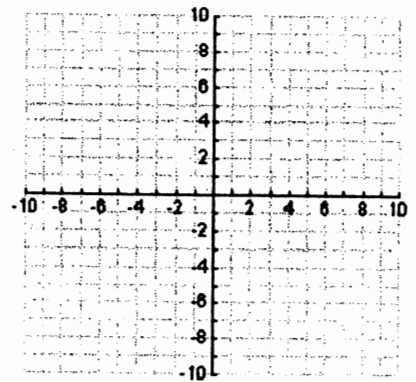
4. $y = \sqrt{x-4}$



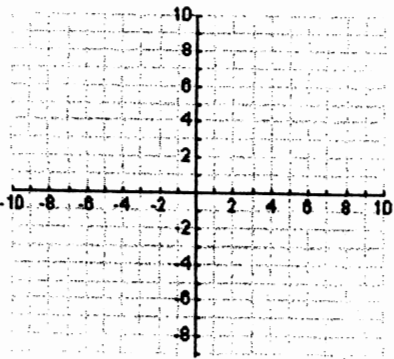
5. $y = 2\sqrt{x}$



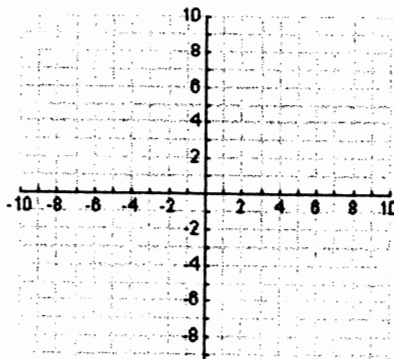
6. $y = \frac{1}{2}\sqrt{x}$



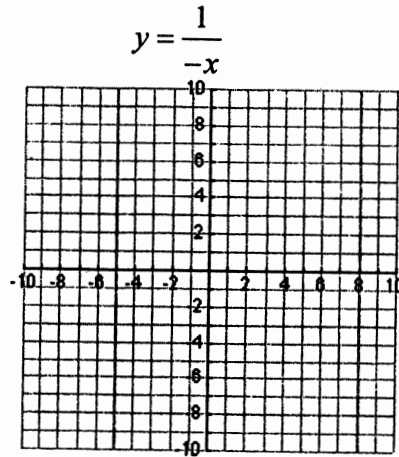
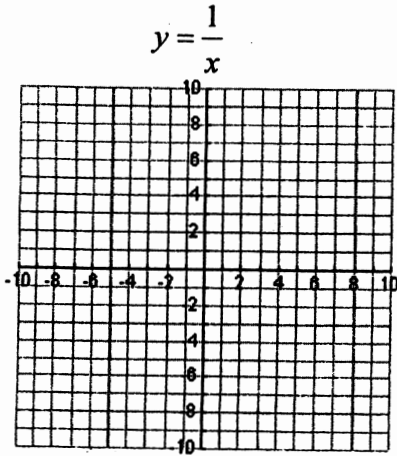
7. $y = \sqrt{x+4}-3$



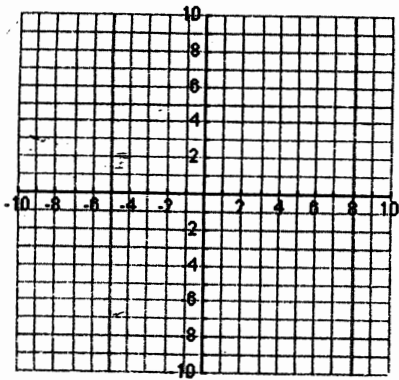
8. $y = -2\sqrt{x-4}+3$



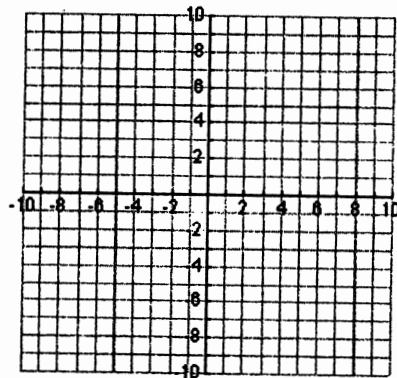
Hyperbola Family



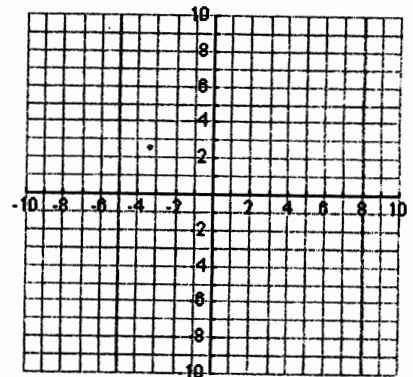
1. $y = \frac{1}{x} + 4$ or $\frac{1+4x}{x}$



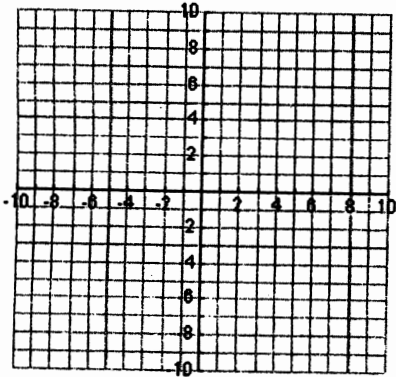
2. $y = \frac{1}{x} - 4$ or $\frac{1-4x}{x}$



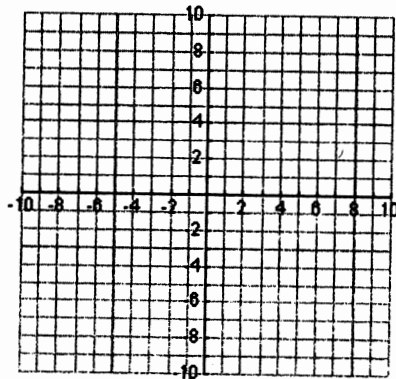
3. $y = \frac{1}{x+4}$



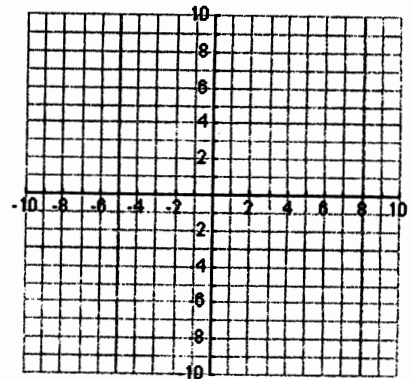
4. $y = \frac{1}{x-4}$



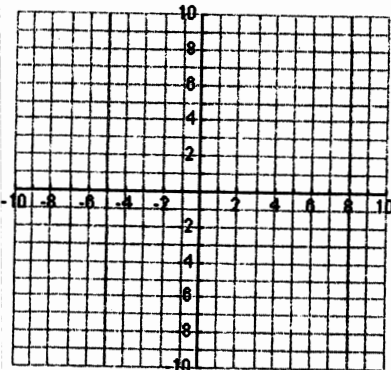
5. $y = \frac{2}{x}$



6. $y = \frac{1}{2x}$



7. $y = \frac{1}{x+4} - 3$



8. $y = \frac{1}{x-4} + 3$ or $\frac{3x-11}{x-4}$

