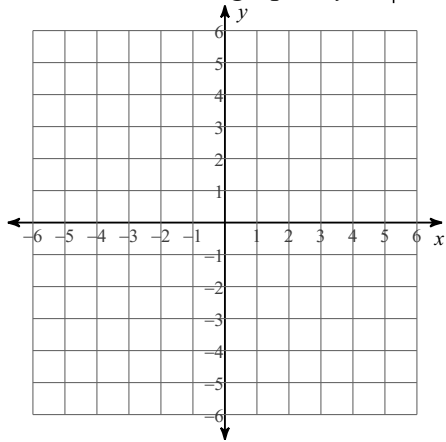
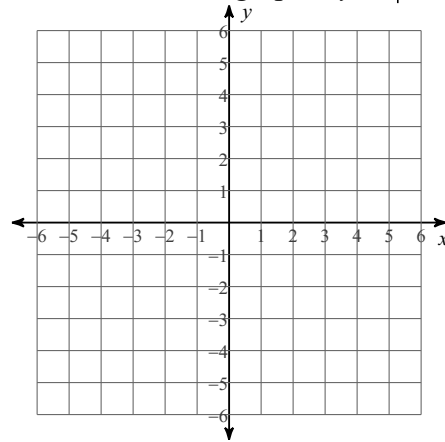


Function Transformations

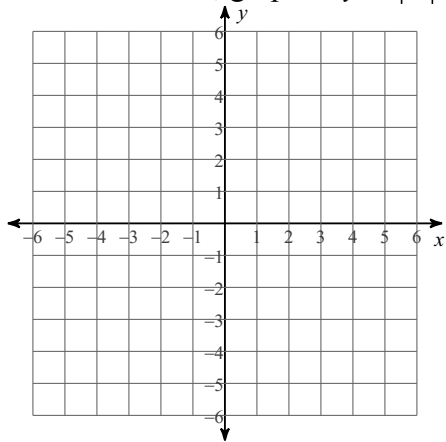
- 1) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x + 3$ .  
 With a dark line, graph  $y = |x + 3|$ .



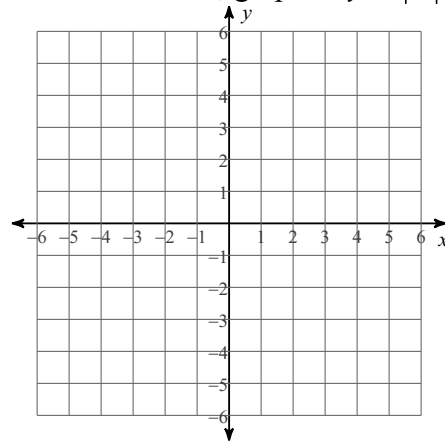
- 2) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x - 3$ .  
 With a dark line, graph  $y = |x - 3|$ .



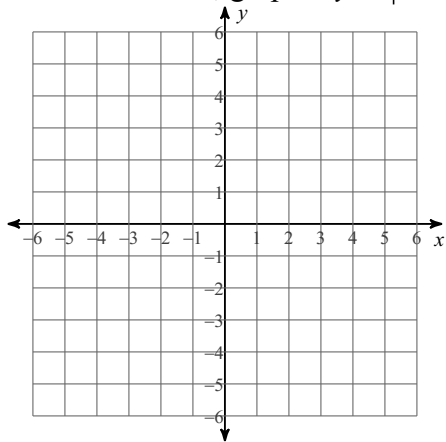
- 3) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = |x|$ .  
 With a dark line, graph  $y = |x| - 4$ .



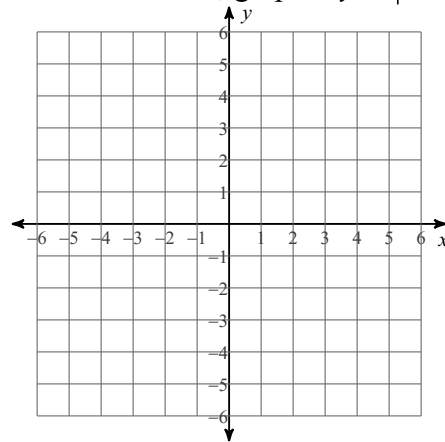
- 4) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = |x|$ .  
 With a dark line, graph  $y = |x| + 2$ .



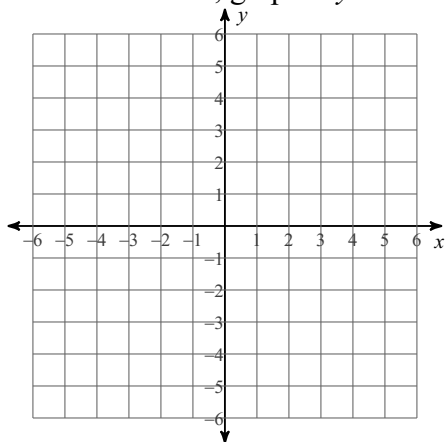
- 5) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x + 2$ .  
 With a dashed line, graph  $y = |x + 2|$ .  
 With a dark line, graph  $y = |x + 2| - 5$ .



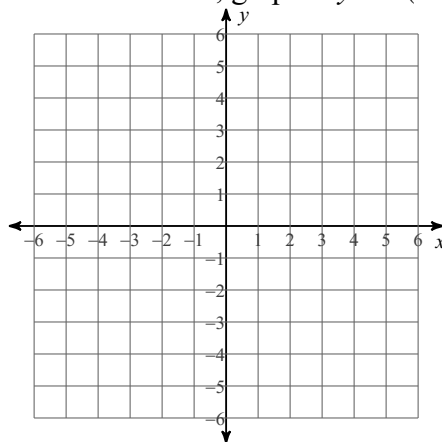
- 6) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x - 4$ .  
 With a dashed line, graph  $y = |x - 4|$ .  
 With a dark line, graph  $y = |x - 4| + 1$ .



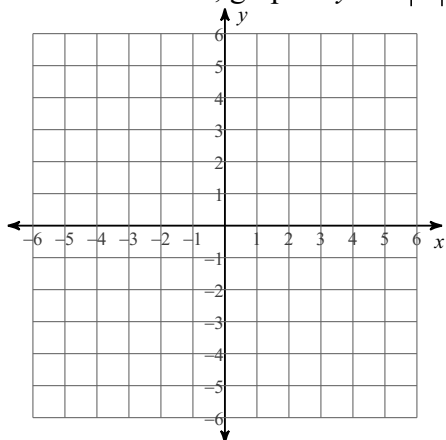
- 7) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = -x$ .  
 With a dark line, graph  $y = -x - 3$ .



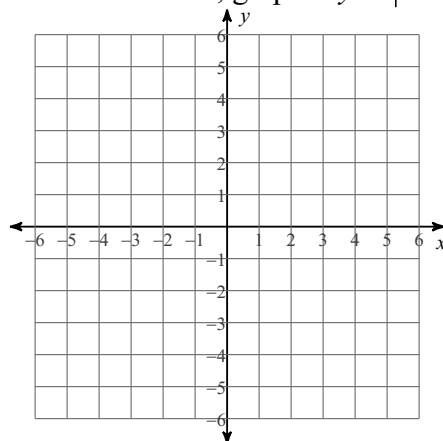
- 8) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x + 2$ .  
 With a dark line, graph  $y = -(x + 2)$ .



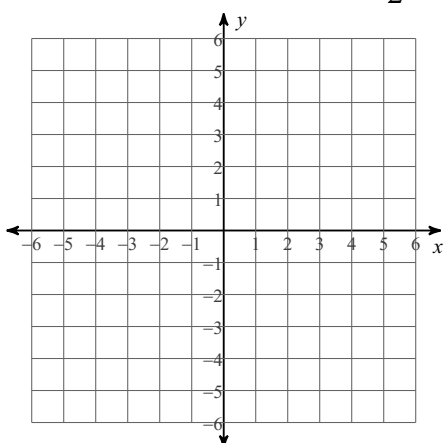
- 9) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = |x|$ .  
 With a dashed line, graph  $y = -|x|$ .  
 With a dark line, graph  $y = -|x| + 3$ .



- 10) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = 2x$ .  
 With a dashed line, graph  $y = 2x - 3$ .  
 With a dark line, graph  $y = |2x - 3|$ .



- 11) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = x + 3$ .  
 With a dashed line, graph  $y = \frac{1}{2}(x + 3)$ .  
 With a dark line, graph  $y = \frac{1}{2}(x + 3) - 4$ .



- 12) With a faint line, graph  $y = x$ .  
 With a dotted line, graph  $y = \frac{1}{2}x$ .  
 With a dashed line, graph  $y = \frac{1}{2}x - 1$ .  
 With a dark line, graph  $y = \left| \frac{1}{2}x - 1 \right|$ .

