

Objective 5 - Page 2 of 6

What is the simplified form of $\frac{(-6a^3b^5)(2a^2b^3)}{-18a^4b^8c^3}$?

- F $-\frac{2a^2b}{3c^3}$
- G $\frac{2a}{3c^3}$
- H $\frac{2a^2b}{3bc^3}$
- J $-\frac{2ab}{3c^3}$

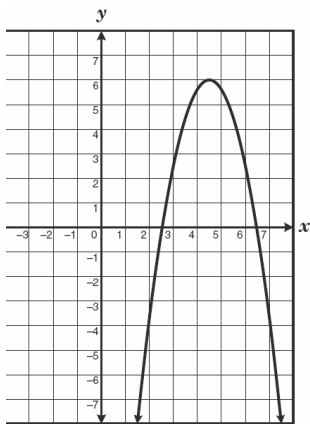
April '06 Obj 5 - # 16

How does the graph of $y = -\frac{3}{4}x^2$ differ from the graph of $y = \frac{4}{3}x^2$?

- F The graph of $y = -\frac{3}{4}x^2$ opens downward and is wider than the graph of $y = \frac{4}{3}x^2$.
- G The graph of $y = -\frac{3}{4}x^2$ opens upward and is wider than the graph of $y = \frac{4}{3}x^2$.
- H The graph of $y = -\frac{3}{4}x^2$ opens upward and is narrower than the graph of $y = \frac{4}{3}x^2$.
- J The graph of $y = -\frac{3}{4}x^2$ opens downward and is narrower than the graph of $y = \frac{4}{3}x^2$.

April '06 Obj 5 - # 46

Which points best represent the roots of the graphed quadratic equation shown below?



- F $(6\frac{1}{2}, 0)$ and $(4\frac{1}{2}, 6)$
- G $(4\frac{1}{2}, 6)$ and $(2\frac{1}{2}, 0)$
- H $(2\frac{1}{2}, 0)$ and $(6\frac{1}{2}, 0)$
- J $(0, 2\frac{1}{2})$ and $(0, 6\frac{1}{2})$

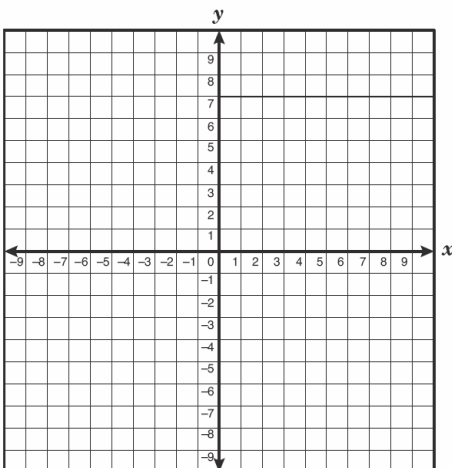
April '06 Obj 5 - # 18

Which of the following functions of the form $y = ax^2$ produces the widest graph and opens upward?

- F $y = -\frac{1}{4}x^2$
- G $\frac{6}{5}x^2$
- H $-\frac{4}{3}x^2$
- J $\frac{7}{3}x^2$

Feb '06 Obj 5 - # 2

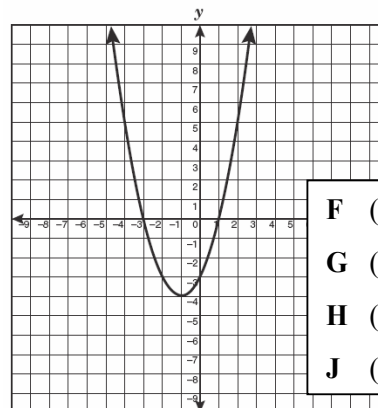
Which of the following is the vertex of the graph of the equation $y = -x^2 + 2x + 3$?



- A (0, 3)
- B (-1, 0)
- C (1, 4)
- D (3, 0)

April '06 Obj 5 - # 43

The graph of the function $y = x^2 + 2x - 3$ is shown below. What are the y-intercept and x-intercepts of the function?



- F (0, -3), (0, 1), (-3, 0)
- G (0, -3), (1, 0), (-3, 0)
- H (-3, 0), (1, 0), (-3, 1)
- J (1, -3), (0, 1), (0, -3)

Feb '06 Obj 5 - # 6