

8.2 Homework

Find each product.

1) $3(8n^2 + 3n + 7)$

2) $(5x + 4)(x - 6)$

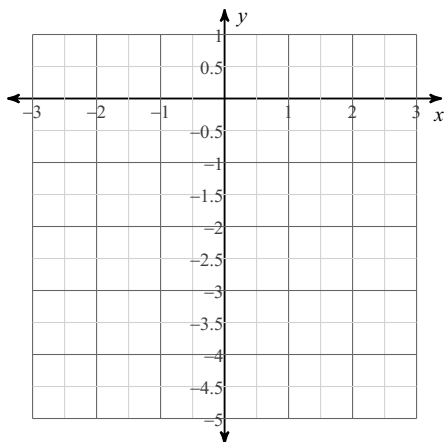
Simplify.

3) $\sqrt{64}$

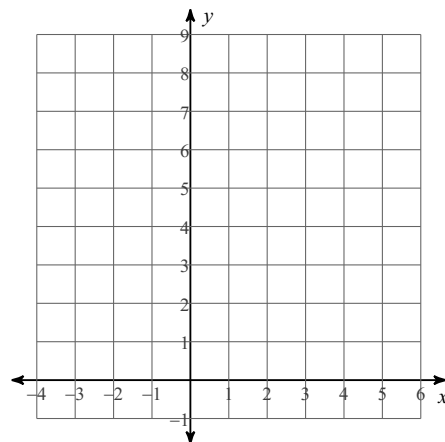
4) $\sqrt{36b^2}$

Sketch the graph of each function.

5) $y = -x^2$



6) $y = 2x^2$



Factor each expression.

7) $49 + 28x^2 + 63x^4$

8) $-14x^9 + 18x + 10$

9) $-21x^2 + 18x + 6$

10) $24k^3 - 9k^2 + 18k$

11) $3n^2 + 15n^3 - 3n^4$

12) $30r^9 - 12r^6 + 21r^5$

Answers to 8.2 Homework

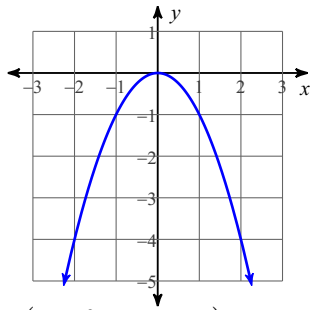
1) $24n^2 + 9n + 21$

2) $5x^2 - 26x - 24$

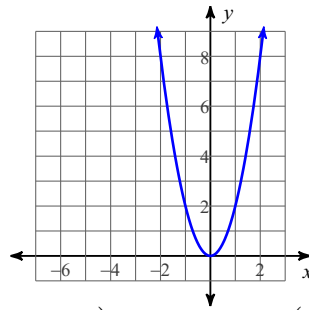
3) 8

4) $6b$

5)



6)



7) $7(7 + 4x^2 + 9x^4)$

8) $2(-7x^9 + 9x + 5)$

9) $3(-7x^2 + 6x + 2)$

10) $3k(8k^2 - 3k + 6)$

11) $3n^2(1 + 5n - n^2)$

12) $3r^5(10r^4 - 4r + 7)$