

Find each product.

1) $(x - 4)(x - 9)$

6) $(11a - 6b)(2a + 3b)$

2) $(p + 2)(p - 10)$

7) $(2x - 5)(3x^2 - 4x + 1)$

3) $(8d + 3)(5d + 2)$

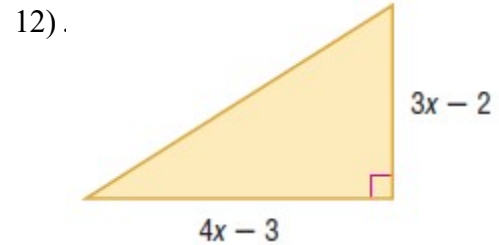
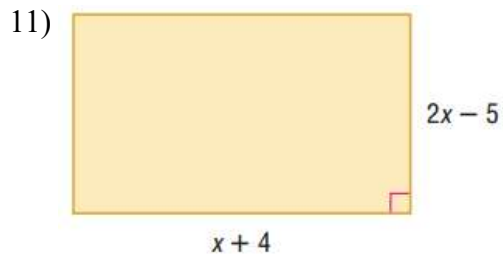
8) $(a - 3)(a^2 - 8a + 5)$

4) $(6a - 5)(3a - 8)$

9) $(n^2 - 3n + 2)(n^2 + 5n - 4)$

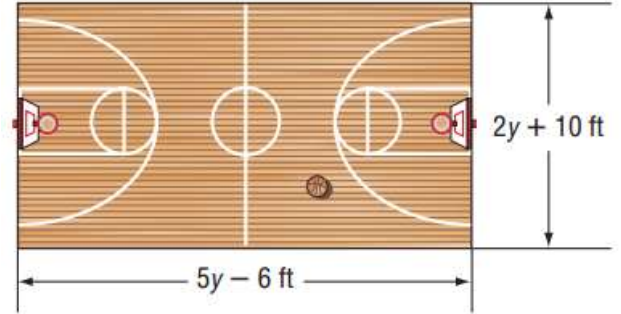
5) $(10r - 4)(10r + 4)$

10) $(y^2 + 7y - 1)(y^2 - 6y + 5)$

Write an expression to represent the area of each figure.

Complete.

- 13) The dimensions of a professional basketball court are represented by a width of $2y + 10$ feet and a length of $5y - 6$ feet. Find an expression for the area of the court.



Simplify.

14) $3x(2x - 4) + 6(5x^2 + 2x - 7)$

15) $4a(5a^2 + 2a - 7) - 3(2a^2 - 6a - 9)$

If $f(x) = 2x - 5$ and $g(x) = x^2 + 3x$, find each value.

16) $f(-4)$

17) $g(-2)$

Simplify.

18) $(9b)^2$

19) $(2v^3)^2$