Module 5 Lesson 7 Assignment Name:_____

Find each product.

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

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

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

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

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

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

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

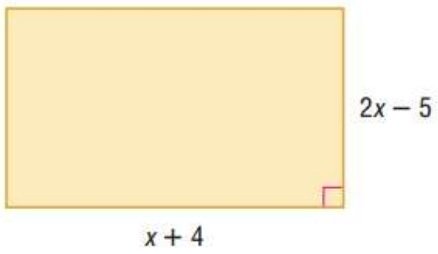
8) $(a-3)(a^2-8a+5)$

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

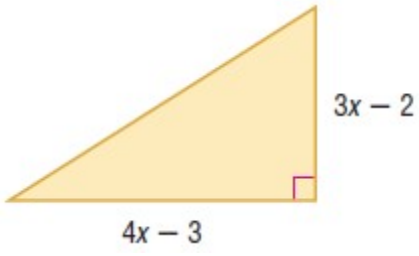
10) $(y^2+7y-1)(y^2-6y+5)$

Write an expression to represent the area of each figure.

11)

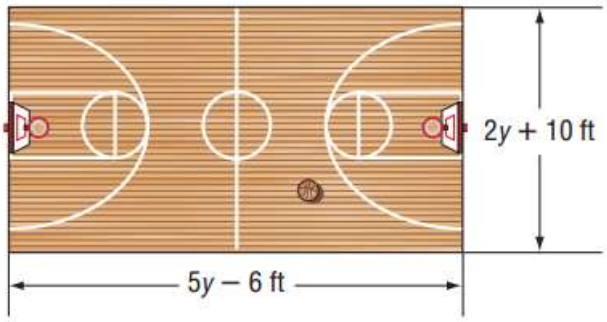


12)



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) $(2v^3)^2$