

**Homework 31.2**

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**Solve each equation by factoring.**

1)  $(3p + 5)(p - 5) = 0$

2)  $(k + 2)(k - 5) = 0$

3)  $x^2 + 6x = 0$

4)  $n^2 - 9n + 18 = 0$

5)  $r^2 - 2r = 35$

6)  $m^2 + 36 = -12m$

**Find each product.**

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

8)  $(3n + 6)(8n - 7)$

## Answers to Homework 31.2

1)  $\left\{-\frac{5}{3}, 5\right\}$

2)  $\{-2, 5\}$

3)  $\{-6, 0\}$

4)  $\{6, 3\}$

5)  $\{7, -5\}$

6)  $\{-6\}$

7)  $28x^2 + 30x + 8$

8)  $24n^2 + 27n - 42$