

## Homework 31.3

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**Solve each equation by factoring.**

1)  $(5x + 7)(6x + 5) = 0$

2)  $(8p - 5)(p + 3) = 0$

3)  $n^2 + n - 30 = 0$

4)  $m^2 + 14m + 48 = 0$

5)  $x^2 = -35 + 12x$

6)  $r^2 = 8r - 15$

**Find each product.**

7)  $(3n - 8)(n + 5)$

8)  $(5b - 3)(4b + 6)$

## Answers to Homework 31.3

1)  $\left\{-\frac{7}{5}, -\frac{5}{6}\right\}$

5)  $\{5, 7\}$

2)  $\left\{\frac{5}{8}, -3\right\}$

6)  $\{5, 3\}$

3)  $\{5, -6\}$

7)  $3n^2 + 7n - 40$

4)  $\{-8, -6\}$

8)  $20b^2 + 18b - 18$