

## Assignment

**Factor each completely.**

1)  $4x^2 - 25$

2)  $64x^2 - 4$

3)  $125a^2 - 45$

4)  $2x^2 + 10x + 8$

5)  $9v^2 + 51v + 60$

6)  $8p^2 + 38p + 24$

**Solve each equation by factoring.**

7)  $27 = -3n^2 - 18n$

8)  $6 = 9x - 3x^2$

9)  $10r = 6 - 4r^2$

10)  $6n^2 + 21n + 16 = -2$

## Answers to Assignment (ID: 1)

1)  $(2x + 5)(2x - 5)$

5)  $3(3v + 5)(v + 4)$

9)  $\left\{\frac{1}{2}, -3\right\}$

2)  $4(4x + 1)(4x - 1)$

6)  $2(p + 4)(4p + 3)$

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

3)  $5(5a + 3)(5a - 3)$

7)  $\{-3\}$

4)  $2(x + 1)(x + 4)$

8)  $\{1, 2\}$