

Practice Assignment #16

Factor the common factor out of each expression.

1) $2n - 16$

$2(n - 8)$

2) $30x + 12$

$6(5x + 2)$

Factor each completely.

3) $4m^2 + 20m + 16$

$4(m + 1)(m + 4)$

4) $x^2 - x - 42$

$(x - 7)(x + 6)$

5) $m^2 + 10m + 24$

$(m + 4)(m + 6)$

6) $x^2 - x - 42$

$(x + 6)(x - 7)$

7) $9x^2 - 4$

$(3x + 2)(3x - 2)$

8) $25x^2 - 40x + 16$

$(5x - 4)^2$

$$9) 25n^2 + 40n + 16$$

$$(5n + 4)^2$$

$$10) 9k^2 - 1$$

$$(3k + 1)(3k - 1)$$

$$11) 12x^3 + 8x^2 - 15x - 10$$

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

$$12) 5n^3 + 3n^2 + 40n + 24$$

$$(n^2 + 8)(5n + 3)$$

$$13) 32x^3 - 20x^2 - 40x + 25$$

$$(4x^2 - 5)(8x - 5)$$

$$14) 4k^3 + 10k^2 - 10k - 25$$

$$(2k^2 - 5)(2k + 5)$$

$$15) 40r^3 + 35r^2 + 16r + 14$$

$$(5r^2 + 2)(8r + 7)$$