

Practice Assignment #10

Factor each completely. Always look for a GCF first!

1) $n^2 - 4n - 5$
 $(n - 5)(n + 1)$

2) $x^2 + 19x + 90$
 $(x + 10)(x + 9)$

3) $6b^2 + 78b + 180$
 $6(b + 10)(b + 3)$

4) $n^2 - n - 30$
 $(n - 6)(n + 5)$

5) $3a^2 - 36a + 60$
 $3(a - 2)(a - 10)$

6) $k^2 + 9k + 14$
 $(k + 2)(k + 7)$

7) $b^2 - 8b + 15$
 $(b - 5)(b - 3)$

8) $x^2 + 4x - 60$
 $(x + 10)(x - 6)$

9) $m^2 - 11m + 30$
 $(m - 6)(m - 5)$

10) $2v^2 - 6v - 20$
 $2(v - 5)(v + 2)$

Factor each completely.

$$11) 4b^2 - 13b + 9$$
$$(b - 1)(4b - 9)$$

$$12) 10x^2 + 33x - 54$$
$$(2x + 9)(5x - 6)$$

$$13) 9r^2 + 62r + 48$$
$$(r + 6)(9r + 8)$$

$$14) 4x^2 + 4x - 3$$
$$(2x + 3)(2x - 1)$$

$$15) 10x^2 + 17x - 6$$
$$(x + 2)(10x - 3)$$

$$16) 9k^2 - 53k - 70$$
$$(k - 7)(9k + 10)$$

$$17) 8a^2 - 61a - 24$$
$$(a - 8)(8a + 3)$$

$$18) 9x^2 + 18x + 5$$
$$(3x + 1)(3x + 5)$$

$$19) 6x^2 - 37x + 6$$
$$(x - 6)(6x - 1)$$

$$20) 6k^2 + 19k + 10$$
$$(3k + 2)(2k + 5)$$