

Extra Practice Factoring

Date _____ Period _____

Factor each completely.

1) $7m^3 - 5m^2 + 35m - 25$

2) $3m^3 - 18m^2 - 5m + 30$

3) $18b^3 - 6b^2 - 27b + 9$

4) $35x^3 + 5x^2 + 56x + 8$

5) $9a^3 - 3a^2 - 3a + 1$

6) $75b^3 + 45b^2 - 120b - 72$

7) $n^2 + 5n$

8) $x^2 - 3x - 40$

9) $n^2 - 12n + 35$

10) $5x^2 - 10x - 240$

11) $5b^2 + 20b - 25$

12) $2n^2 - 12n - 54$

Extra Practice Factoring

Factor each completely.

1) $7m^3 - 5m^2 + 35m - 25$

$(m^2 + 5)(7m - 5)$

2) $3m^3 - 18m^2 - 5m + 30$

$(3m^2 - 5)(m - 6)$

3) $18b^3 - 6b^2 - 27b + 9$

$3(2b^2 - 3)(3b - 1)$

4) $35x^3 + 5x^2 + 56x + 8$

$(5x^2 + 8)(7x + 1)$

5) $9a^3 - 3a^2 - 3a + 1$

$(3a^2 - 1)(3a - 1)$

6) $75b^3 + 45b^2 - 120b - 72$

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

7) $n^2 + 5n$

$n(n + 5)$

8) $x^2 - 3x - 40$

$(x - 8)(x + 5)$

9) $n^2 - 12n + 35$

$(n - 7)(n - 5)$

10) $5x^2 - 10x - 240$

$5(x - 8)(x + 6)$

11) $5b^2 + 20b - 25$

$5(b - 1)(b + 5)$

12) $2n^2 - 12n - 54$

$2(n + 3)(n - 9)$