

MPM2D MSIP Factoring Practice "Day 1"...Do your best. Then, check answers from the Key that is on the back!

REMEMBER - if the leading term is negative, factor out the negative first!

© 2012 Kuta Software LLC. All rights reserved.

Factor each completely.

1) $3k^2 - 8k$

2) $6x^2 + 32x - 24$

3) $7m^2 + 2m - 10$

4) $-9a^2 - 75a + 150$

5) $7p^2 - 58p - 45$

6) $50k^2 + 40k + 8$

7) $m^2 - 4$

8) $64r^2 - 36$

9) $75x^2 - 48$

Factor the common factor out of each expression.

10) $-25xy - 45x^2y + 50x^3$

11) $20v^4 + 8v^2u^2 + 6v$

12) $24uv^2 + 24u^3 + 30u^3v$

Factor each completely.

13) $9x^2 + 30xy + 25y^2$

14) $4a^2 - 9b^2$

15) $9y^2 - 16x^2$

16) $3x^3 - 4x^2 + 6x - 8$

17) $20r^3 - 16r^2 + 25r - 20$

18) $3n^3 + 3n^2 + 5n + 5$

MPM2D MSIP Factoring Practice "Day 1"...Do your best. Then, check answers from the Key that is on the back!

REMEMBER - if the leading term is negative, factor out the negative first!

© 2012 Kuta Software LLC. All rights reserved.

Factor each completely.

1) $3k^2 - 8k$

$$k(3k - 8)$$

2) $6x^2 + 32x - 24$

$$2(3x - 2)(x + 6)$$

3) $7m^2 + 2m - 10$

Not factorable

4) $-9a^2 - 75a + 150$

$$-3(3a - 5)(a + 10)$$

5) $7p^2 - 58p - 45$

$$(7p + 5)(p - 9)$$

6) $50k^2 + 40k + 8$

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

7) $m^2 - 4$

$$(m + 2)(m - 2)$$

8) $64r^2 - 36$

$$4(4r + 3)(4r - 3)$$

9) $75x^2 - 48$

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

Factor the common factor out of each expression.

10) $-25xy - 45x^2y + 50x^3$

$$5x(-5y - 9xy + 10x^2)$$

11) $20v^4 + 8v^2u^2 + 6v$

$$2v(10v^3 + 4u^2v + 3)$$

12) $24uv^2 + 24u^3 + 30u^3v$

$$6u(4v^2 + 4u^2 + 5u^2v)$$

Factor each completely.

13) $9x^2 + 30xy + 25y^2$

$$(3x + 5y)^2$$

14) $4a^2 - 9b^2$

$$(2a + 3b)(2a - 3b)$$

15) $9y^2 - 16x^2$

$$(3y + 4x)(3y - 4x)$$

16) $3x^3 - 4x^2 + 6x - 8$

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

17) $20r^3 - 16r^2 + 25r - 20$

$$(4r^2 + 5)(5r - 4)$$

18) $3n^3 + 3n^2 + 5n + 5$

$$(3n^2 + 5)(n + 1)$$