

Semester 2 Exam Practice – Polynomials and Factoring
(Multiple Choice 15-19) + (One Multi-Part Constructed Response)

Polynomials and Factoring Review

Notes

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____ 15. Simplify.

$$(4x^3 - 12x^2 - 5) + (-8x^3 + 10x - 3)$$

- a) $-4x^3 - 2x + 2$
- b) $-4x^3 - 2x - 8$
- c) $-4x^3 - 12x^2 + 10x - 8$
- d) $-4x^3 - 2x^2 - 2x - 8$

____ 16. Simplify.

$$(7m^3 - 2m^2 + 4) - (-5m^3 + 2m + 2)$$

- a) $2m^3 - 2m^2 + 2m + 6$
- b) $12m^3 - 2m^2 - 2m + 2$
- c) $12m^3 - 2m^2 + 2m + 6$
- d) $2m^3 - 4m^2 + 2m + 6$

____ 17. Simplify.

$$(3g - 2)(g + 4)$$

- a) $4g + 2$
- b) $3g^2 - 8$
- c) $3g^2 + 10g - 8$
- d) $3g^2 + 2g - 8$

____ 18. Factor the trinomial.

$$x^2 + 5x - 24$$

- a) $(x + 12)(x - 2)$
- b) $(x + 8)(x - 3)$
- c) $(x - 8)(x + 3)$
- d) $(x - 24)(x + 1)$

____ 19. Factor the trinomial.

$$5x^2 + 9x - 18$$

- a) $(x + 15)(x - 6)$
- b) $(x - 3)(5x + 6)$
- c) $(5x + 3)(x - 6)$
- d) $(x + 3)(5x - 6)$

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- Factor each polynomial completely. (Don't forget to factor out a GCF if needed.)

a) $m^2 + m - 20$

b) $8x^2 + 10x - 3$

c) $8m^2 - 26m - 70$

d) $12a^3 - 9a^2 + 4a - 3$

e) $x^2 - 36$

- Factor each polynomial completely. (Don't forget to factor out a GCF if needed.)

a) $r^2 + 2r - 8$

b) $6x^2 - 23x - 18$

c) $5y^2 + 15y + 10$

d) $3n^3 - 4n^2 + 9n - 12$

e) $x^2 - 8x + 16$