Review for Ch.8 Test

1. Rewrite in standard form.
Give the name by degree and terms.

$$-4x^2 + x^3 + 3 - 6x$$

$x^3 - 4x^2 - 6x + 3$

cubic polynomial

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Add. Write in standard form.

2. $(2x^2 + x - 5) + (x + x^2 + 6)$

$3x^2 + 2x + 1$

3. $(6s^4 + 7s^2 + 7) + (8s^4 - 11s^2 + 9s)$

$14s^4 - 4s^2 + 9s + 7$

Apr 23-7:45 AM

Subtract. Write in standard form.

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

$x^2 - 4x + 7$

5. $(8z^3 - 3z^2 - 7) + (z^3 + z^2 - 9)$

$7z^3 - 2z^2 - 16$

Apr 23-7:45 AM

Find the product. Write in standard form.

6. $3d(6d + d^2)$

$18d^2 + 3d^3$

$3d^3 + 18d^2$

7. $4m(2m + 9m^2 - 6)$

$8m^2 + 36m^3 - 24m$

$36m^3 + 8m^2 - 24m$

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Find the product. Write in standard form.

FOIL

8. $(w + 1)(w + 12)$

$w^2 + 12w + 1w + 12$

$w^2 + 13w + 12$

9. $(x + 2)(7x - 1)$

$7x^2 - 1x + 14x - 2$

$7x^2 + 13x - 2$

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Find the product. Write in standard form.

10. $(3x^2 + 2x - 1)(x - 2)$

$3x^3 + 2x^2 - 1x - 6x^2 - 4x + 2$

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

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11. $(3r-2)^2$

$(3r-2)(3r-2)$

$9r^2-6r-6r+4$

$9r^2-12r+4$

Nov 28-10:17 AM

Factor Completely.

12. $p^2+8p+12$

$(p+6)(p+2)$

12, 6, 2, 8

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Factor Completely.

13. $d^2-18d+45$

$(d-3)(d-15)$

45, -3, -15, -18

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Factor Completely.

14. $2n^2+3n-2$

$\left(n+\frac{4}{2}\right)\left(n-\frac{1}{2}\right)$

$(n+2)(2n-1)$

-4, 4, -1, 3

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Factor Completely.

15. $2g^2-35g+17$

$\left(g-\frac{34}{2}\right)\left(g-\frac{1}{2}\right)$

$(g-17)(2g-1)$

34, -34, -1, -35

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Factor Completely.

16. $\frac{5g^2}{5}+\frac{15g}{5}+\frac{10}{5}$

$5(g^2+3g+2)$

$5(g+2)(g+1)$

2, 1, 2, 3

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Factor Completely.

17. $49n^2 - 4$

$7 \quad 2$

$(7n-2)(7n+2)$

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Solve for t.

18. $t^2 + 7t - 60 = 0$

$(t+12)(t-5)=0$

-60, 12, -5, 7

$t+12=0$ or $t-5=0$

$-12 \quad -12 \quad +5 \quad +5$

$t=-12 \quad t=5$

$t=-12$ or 5

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Solve for x.

19. $x^2 - 22x = -121$

$+121 \quad +121$

$x^2-22x+121=0$

$(x-11)(x-11)=0$

121, -11, -11, -22

$x-11=0$

$x=11$

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Classwork: **p.563 #2 - 30 even omit #22**

Homework: Study for ch.8 test

Nov 18-4:02 PM