

STUDY GUIDE #1

Complete all events

Algebra I
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Mixed Polynomial Review

Name _____ ID: 1

Date _____ Period _____

- ① Simplify each expression. ② classify by degree and term ③coeff and constants
- 1) $(5n - 11n^5 - 6) - (4n^5 - 6 + 8n^3)$
 - 2) $(7n^3 - 9 - 4n^5) + (-4n^3 + 11n^5 - 7n)$

3) $(12v - 4v^3 + 13) - (6v^3 - 9v^4 - 14)$

4) $(-5p^4 - 11 - 3p) - (-14 + 9p - 10p^4)$

5) $(13v^5 + 12v^4 + 2v^2) - (5v + 12v^2 + 3v^5)$

6) $(3p^4 - 2 - 10p^5) + (-4p^5 - 14p^4 - 6)$

7) $(-2 + 9v^4 + 12v) + (v + 10 - 10v^4)$

8) $(-8b^5 + 9b^2 - b) - (-b^5 - 7b - 7b^2)$

9) $(6x^2 - 7x^3 + 2x^5) + (-10x^3 - 9x^5 + 8x^2)$

10) $(13x^3 - 10 - 5x^5) + (11x^3 - 6x^5 + 1)$

Find each product.

11) $(-2x - 4)(-3x + 7)$

12) $(-2n - 1)(8n + 2)$

13) $(-3n + 6)(-n + 3)$

14) $(r - 4)(-7r - 1)$

15) $(-6k - 3)(-2k - 8)$

16) $(-9x - 3)(-5x^2 + 11x + 4)$

17) $(-10a - 9)(-7a^2 - a + 2)$

18) $(-12x - 4)(-2x^2 - x - 6)$

19) $(-12n - 10)(3n^2 + 3n - 7)$

20) $(12v + 12)(-9v^2 - 4v - 10)$

Evens

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Mixed Radical Review

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Simplify.

1) $\sqrt{18}$

2) $\sqrt{20}$

3) $\sqrt{20m}$

4) $\sqrt{50n^2}$

5) $4\sqrt{27n}$

6) $4\sqrt{32k^2}$

7) $\sqrt{3} \cdot \sqrt{12}$

8) $\sqrt{5} \cdot \sqrt{20}$

9) $-2\sqrt{8} \cdot \sqrt{5}$

10) $\sqrt{10} \cdot \sqrt{5}$

11) $\sqrt{5x^2} \cdot \sqrt{15x^2}$

12) $\sqrt{3x^3} \cdot \sqrt{5x}$

13) ~~$\frac{x\sqrt{4}}{\sqrt{9}}$~~

14) ~~$\frac{\sqrt{8}}{\sqrt{4}}$~~

15) ~~$\frac{4}{x\sqrt{5}}$~~

16) ~~$\frac{\sqrt{3}}{\sqrt{2}}$~~

17) $\sqrt{3} + \sqrt{3}$

18) $\sqrt{8} + \sqrt{18}$

19) $-3\sqrt{24} + 2\sqrt{6}$

20) $-\sqrt{6} - 3\sqrt{6}$