

Name:

Partners:

Math 2

Date:

Review 1 Version A

[A] Circle whether each statement is true or false.

T F 1. $2s^{-1} = \frac{1}{2s}$

T F 2. $\frac{a^5b^5}{a^5b^5} = b^{-10}$

T F 3. $6 \times \frac{1}{7} = \frac{6}{42}$

T F 4. $\left(\frac{h^3}{10q^9}\right)^{-1} = \left(\frac{10q^9}{h^3}\right)$

T F 5. $8 + 2\sqrt{x} = 10\sqrt{x}$

T F 6. $1 - .04\% = .9996$

T F 7. $\sqrt{9x^2 + 25} = 3x + 5$

T F 8. $(3x + 5)^2 = 9x^2 + 25$

T F 9. $(x^2 + 10x + 21) \div (x + 3) = x + 7$

T F 10. $(7 \times 10^{29}) + (4 \times 10^{28}) = 7.4 \times 10^{29}$

T F 11. The leading coefficient of $9x - \frac{x^2}{4}$ is $-\frac{1}{4}$.

T F 12. The value of 0.18^{30} is between 4 and 5.

T F 13. $(10x^3 - 5x) - (14x^2 - 2x) = 10x^3 - 14x^2 - 3x$

T F 14. The expression $-12x^2$ is a quadratic monomial.

T F 15. The expression $9x + 20 \cos 4x$ has three terms.

T F 16. The product of any two cubic polynomials is a sixth degree polynomial.

T F 17. In the expression $8x + \sqrt{x + 2}$, $x + 2$ is the argument of the square root function.

T F 18. $A = 229 \times 10^{16}$ and $B = 2.29 \times 10^{18}$ are equal, but only B is written in scientific notation.

[B] Simplify completely. Write answers without parentheses or negative exponents.

1. $\frac{15a^2\sqrt{6b}}{9a^4 + 6a^3}$

2. $2(3x^4)^{-2}$

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

4. $5\left(\frac{10a^5}{20b}\right)^{-2}$

5. $6\left(\frac{5\sqrt{2x}}{9}\right)$

6. $(x + 10)(x + 2)(x - 2)$

[C] Solve. Show exact answers, and then round to the nearest hundredth.

1. $\frac{1}{2}(8x - 1) = 6$

2. $3x^2 = 6$

[D] Optional

1. Do another version (B, C, or D) of this review.

Name:

Math 2

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Review 1 Version B

[A] Circle whether each statement is true or false.

T F 1. $2s^{-1} = \frac{1}{2s}$

T F 2. $\frac{a^5b^5}{a^5b^5} = b^{-10}$

T F 3. $6 \times \frac{1}{7} = \frac{6}{42}$

T F 4. $\left(\frac{h^3}{10q^9}\right)^{-1} = \left(\frac{10q^9}{h^3}\right)$

T F 5. $8 + 2\sqrt{x} = 10\sqrt{x}$

T F 6. $1 - .04\% = .9996$

T F 7. $\sqrt{9x^2 + 25} = 3x + 5$

T F 8. $(3x + 5)^2 = 9x^2 + 25$

T F 9. $(x^2 + 10x + 21) \div (x + 3) = x + 7$

T F 10. $(7 \times 10^{29}) + (4 \times 10^{28}) = 7.4 \times 10^{29}$

T F 11. The leading coefficient of $9x - \frac{x^2}{4}$ is $-\frac{1}{4}$.

T F 12. The value of 0.18^{30} is between 4 and 5.

T F 13. $(10x^3 - 5x) - (14x^2 - 2x) = 10x^3 - 14x^2 - 3x$

T F 14. The expression $-12x^2$ is a quadratic monomial.

T F 15. The expression $9x + 20 \cos 4x$ has three terms.

T F 16. The product of any two cubic polynomials is a sixth degree polynomial.

T F 17. In the expression $8x + \sqrt{x + 2}$, $x + 2$ is the argument of the square root function.

T F 18. $A = 229 \times 10^{16}$ and $B = 2.29 \times 10^{18}$ are equal, but only B is written in scientific notation.

[B] Simplify completely. Write answers without parentheses or negative exponents.

1. $\frac{18ab^4\sqrt{6b}}{9ab^4 + 9ab^3}$

2. $20y(3x^5)^{-2}$

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

4. $3\left(\frac{12a^5}{8b^4}\right)^{-2}$

5. $6\left(\frac{5 + \sqrt{2x}}{9}\right)$

6. $10(x + 1)(x + 3)(x - 3)$

[C] Solve. Show exact answers, and then round to the nearest hundredth.

1. $\frac{1}{2}(8x - 5) = 4x + 6$

2. $3x^2 = 15$

[D] Optional

1. Find two polynomials whose product is the given polynomial.

a) $x^2 + 20x + 100$

b) $x^2 + 12x + 20$

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Math 2

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Review 1 Version C

[A] Circle whether each statement is true or false.

T F 1. $2s^{-1} = \frac{1}{2s}$

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T F 3. $6 \times \frac{1}{7} = \frac{6}{42}$

T F 4. $\left(\frac{h^3}{10q^9}\right)^{-1} = \left(\frac{10q^9}{h^3}\right)$

T F 5. $8 + 2\sqrt{x} = 10\sqrt{x}$

T F 6. $1 - .04\% = .9996$

T F 7. $\sqrt{9x^2 + 25} = 3x + 5$

T F 8. $(3x + 5)^2 = 9x^2 + 25$

T F 9. $(x^2 + 10x + 21) \div (x + 3) = x + 7$

T F 10. $(7 \times 10^{29}) + (4 \times 10^{28}) = 7.4 \times 10^{29}$

T F 11. The leading coefficient of $9x - \frac{x^2}{4}$ is $-\frac{1}{4}$.

T F 12. The value of 0.18^{30} is between 4 and 5.

T F 13. $(10x^3 - 5x) - (14x^2 - 2x) = 10x^3 - 14x^2 - 3x$

T F 14. The expression $-12x^2$ is a quadratic monomial.

T F 15. The expression $9x + 20 \cos 4x$ has three terms.

T F 16. The product of any two cubic polynomials is a sixth degree polynomial.

T F 17. In the expression $8x + \sqrt{x + 2}$, $x + 2$ is the argument of the square root function.

T F 18. $A = 229 \times 10^{16}$ and $B = 2.29 \times 10^{18}$ are equal, but only B is written in scientific notation.

[B] Simplify completely. Write answers without parentheses or negative exponents.

1. $\frac{18b^3\sqrt{6b}}{8ab^4 + 6ab^3}$

2. $15y(3x^5)^{-2}$

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

4. $3\left(\frac{12a}{14b^4}\right)^{-2}$

5. $6\left(\frac{x-1}{9} + \frac{\sqrt{2x}}{9}\right)$

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

[C] Solve. Show exact answers, and then round to the nearest hundredth.

1. $\frac{1}{4}(8x - 9) = 2x + 3$

2. $2x^2 = 11$

[D] Optional

1. Find two polynomials whose product is the given polynomial.

a) $x^2 + 10x + 25$

b) $x^2 + 12x + 35$

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Review 1 Version D

[A] Circle whether each statement is true or false.

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T F 3. $6 \times \frac{1}{7} = \frac{6}{42}$

T F 4. $\left(\frac{h^3}{10q^9}\right)^{-1} = \left(\frac{10q^9}{h^3}\right)$

T F 5. $8 + 2\sqrt{x} = 10\sqrt{x}$

T F 6. $1 - .04\% = .9996$

T F 7. $\sqrt{9x^2 + 25} = 3x + 5$

T F 8. $(3x + 5)^2 = 9x^2 + 25$

T F 9. $(x^2 + 10x + 21) \div (x + 3) = x + 7$

T F 10. $(7 \times 10^{29}) + (4 \times 10^{28}) = 7.4 \times 10^{29}$

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T F 15. The expression $9x + 20 \cos 4x$ has three terms.

T F 16. The product of any two cubic polynomials is a sixth degree polynomial.

T F 17. In the expression $8x + \sqrt{x + 2}$, $x + 2$ is the argument of the square root function.

T F 18. $A = 229 \times 10^{16}$ and $B = 2.29 \times 10^{18}$ are equal, but only B is written in scientific notation.

[B] Simplify completely. Write answers without parentheses or negative exponents.

1. $\frac{18a^2\sqrt{6b}}{9ab^4 + 6ab^3}$

2. $6x(3x^5)^{-2}$

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

4. $3acd^{-1}\left(\frac{12a^5}{16b^{-4}}\right)^{-2}$

5. $-6\left(\frac{x-8}{9} + \frac{\sqrt{2x}}{9}\right)$

6. $10x^3(x - 4)(x + 1)(x + 4)$

[C] Solve. Show exact answers, and then round to the nearest hundredth.

1. $\frac{1}{4}(8x - 13) = 9x + 6$

2. $3x^2 = 11$

[D] Optional

1. Find two polynomials whose product is the given polynomial.

a) $x^2 - 20x + 100$

b) $x^2 + 20x + 96$