

EMA

The Return of Simplifying

Name: _____

Date: _____ Period: _____

Simplify.

$$1.) \sqrt{-32}$$

$$2.) \sqrt{20}$$

$$3.) \sqrt{-60}$$

$$4.) \sqrt{75}$$

$$5.) \sqrt{72}$$

$$6.) \sqrt{-9}$$

$$7.) \sqrt{56}$$

$$8.) \sqrt{-30}$$

$$9.) \sqrt{-4}$$

$$10.) \sqrt{80}$$

$$11.) \sqrt{-33}$$

$$12.) \sqrt{-24}$$

Simplify. Leave answers in simplified radical form.

$$13.) x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(8)(2)}}{2(8)}$$

$$14.) x = \frac{-(12) \pm \sqrt{(12)^2 - 4(3)(-7)}}{2(3)}$$

$$15.) x = \frac{-(10) \pm \sqrt{(10)^2 - 4(5)(7)}}{2(5)}$$

$$16.) x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(-3)(-5)}}{2(-3)}$$

Evaluate.

17.) If $f(x) = -2x^2 - 4x + 7$, find $f(3)$.

18.) If $g(x) = 3x^2 + 5x - 4$, find $g(-4)$.

19.) If $h(x) = -x^2 + 3x$, find $h(m + 2)$.

20.) If $c(x) = 2x^2 - 6x - 11$, find $c(t - 3)$.

Review.

21.) Simplify. $\frac{2}{3} + 3\left(2 - \frac{1}{4}\right) - 2$

22.) Factor. $4x^2 - 16x + 9$

23.) Solve. $5 - 3(m - 4)^2 = 41$

24.) Given $(-3, 2)$ & $(6, 5)$ lie on a line
write an equation in slope-intercept form.