

Name _____
Chapters 7-8 Review - A

1. Solve the system: $y = x - 2$
 $2x + 2y = 4$

2. Simplify: $\frac{3x^{-2}y}{6y^{-4}}$

3. Write the exponential function model to represent the following situation: You invest \$500 and earn 2.5% interest each year.

4. Identify the following equations as growth or decay. Explain your answer:

a) $y = 20(1.07)^t$

b) $y = 1000(0.85)^t$

5. Simplify: $(a^{-3}b)(a^3b^5)b^{-7}$

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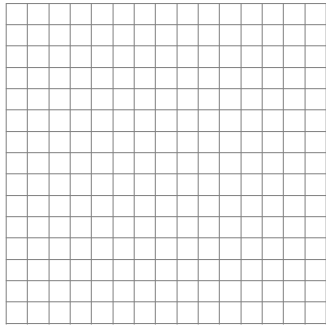
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Chapters 7-8 Review - B

1. Jim bought ten items. He bought socks and gloves. The socks were \$4 and the gloves were \$7. He spent a total of \$43. How many pairs of socks and pairs of gloves did Jim buy?

2. Is the following equation a growth or decay model? Explain your answer. $y = \left(\frac{1}{3}\right)^x$

3. Graph the following exponential function:
 $y = 4^x$



4. Simplify: $\frac{(3x^5y)^2}{9x^{-1}}$

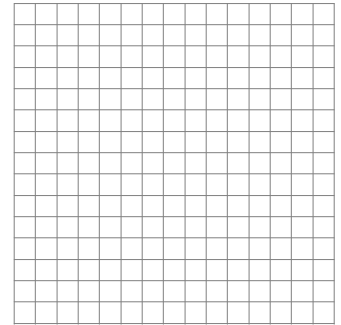
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Chapters 7-8 Review - C

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2. Solve this system of equations: $y = 3x - 4$
 $y = x + 2$

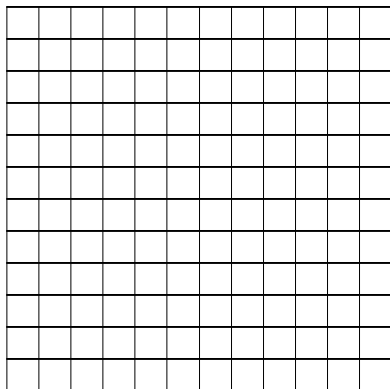
3. Simplify: $\frac{(j^{-1}k^2)^{-3}}{jk}$

4. Write an exponential function that is an example of **DECAY** and an exponential function that is an example of **GROWTH**.

Growth:

Decay:

5. Graph: $y = \left(\frac{1}{3}\right)^x$



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