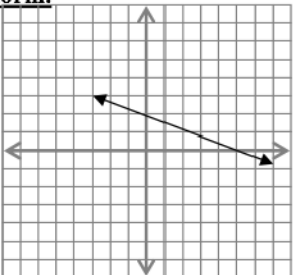


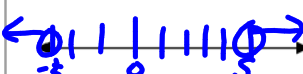
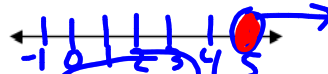


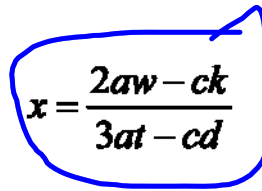
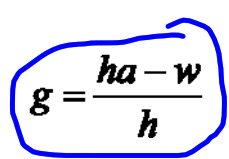
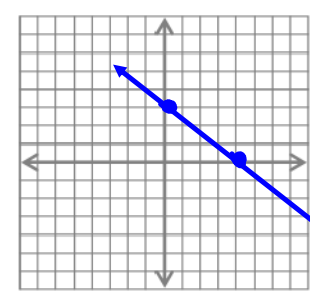
Review Worksheet

Name Key

Block Week 3 Due Friday Week 3

NO WORK = NO CREDIT!!!.....SHOW ALL WORK!

<p>1-2. Classify each number in as many ways as possible</p> <p style="text-align: center;">14</p> <p>natural, whole, integer, rational real</p>	<p>2. $-\frac{8}{3}$</p> <p>rational, real</p>	<p>3-5. State the property.</p> <p style="text-align: center;">$5 \cdot 1 = 5$</p> <p>identity property of multiplication</p>
<p>4. $3x - 6 = 3(x - 2)$</p> <p>distributive property</p>	<p>5. $14 + 2 = 2 + 14$</p> <p>commutative property of addition</p>	<p>6. Write the equation for each line drawn in slope intercept form.</p>  <p>$y = -\frac{2}{5}x + 2$</p>
<p>7-9. Write the equation of a line through the given points in the stated form.</p> <p>Point slope:</p> <p>$(-2, 5)$ and $(6, 1)$</p> <p>$y - 1 = -\frac{1}{2}(x - 6)$ or $y - 5 = -\frac{1}{2}(x + 2)$</p>	<p>8. Standard Form</p> <p>$(8, 3)$ and $(5, -2)$</p> <p>$5x - 3y = 31$</p>	<p>9. Slope-intercept Form</p> <p>$(6, 1)$ and $(4, -8)$</p> <p>$y = \frac{9}{2}x - 26$</p>

<p>10-12 Solve each of the following and sketch the solution on a number line.</p> $-3\left \frac{x-1}{2}\right < -6$  <p>Solution: $x > 5$ or $x < -3$</p>	<p>11. $3(x-2) > 6-3x$ and $\frac{2x+2}{4} + 1 \leq x-1$</p>  <p>Solution: $x \geq 5$</p>	<p>12. $2x+1 + 13 \leq 8$</p>  <p>Solution: <u>no solution</u></p>
<p>13. Q varies directly with D. If Q=5 when D= -7, find: a) k b) the direct variation equation and c) D when Q=-19</p> <p>a) $k = -\frac{5}{7}$</p> <p>b) $Q = -\frac{5}{7}D$</p> <p>c) $D = \frac{133}{5}$</p>	<p>14. Solve and graph solution(s) on a number line.</p> $ 3x+2 = 4x+5$  <p>$x = -1$</p>	<p>15. Solve for x:</p> $a(3tx - 2w) = c(dx - k)$  <p>$x = \frac{2aw - ck}{3at - cd}$</p>
<p>16. Solve for g</p> $\frac{w}{a-g} = h$  <p>$g = \frac{ha - w}{h}$</p>	<p>17. Graph by the intercepts. Show work.</p> $3x + 4y = 12$ <p>Work:</p>  <p>$(0, 3)$</p> <p>$(4, 0)$</p>	<p>18.</p> $f(x) = 4 - x^2 \quad g(x) = 3x + 2$ <p>Find $f(-5) - g(4)$</p> <p>-35</p>