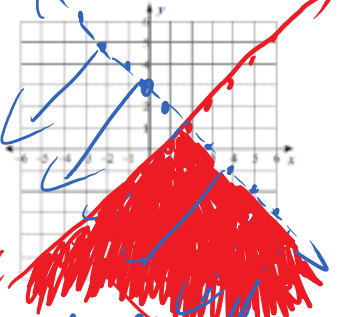
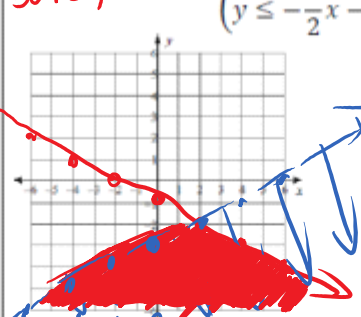
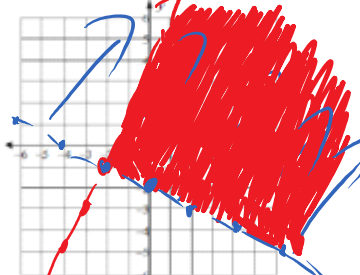


MRS. WILSON

<p>6</p> <p>②</p> $\begin{array}{r} -2 \begin{cases} 5x + 5y = 25 \\ 10x + 6y = 14 \end{cases} \quad -2 \\ \hline -10x - 10y = -50 \\ \hline -4y = -36 \\ \hline y = 9 \end{array}$ <p>Subst. $y = 9$ in ①</p> $\begin{array}{r} 5x + 5(9) = 25 \\ 5x + 45 = 25 \\ \hline -45 \quad -45 \\ \hline 5x = -20 \\ \hline x = -4 \end{array}$ <p>$(-4, 9)$</p>	<p>$-2 \begin{cases} -8x + 3y = -14 \\ -16x - 10y = 4 \end{cases} \quad -2$</p> $\begin{array}{r} \hline 8x - 6y = 28 \\ \hline -16y = 32 \\ \hline y = -2 \end{array}$ <p>Subst $y = -2$ in ①</p> $\begin{array}{r} -8x + 3(-2) = -14 \\ -8x - 6 = -14 \\ \hline +6 \quad +6 \\ \hline -8x = -8 \\ \hline x = 1 \end{array}$ <p>$(1, -2)$</p>
<p>7</p> $\begin{array}{r} -2 \begin{cases} 5x - 3y = -1 \\ 10x - 6y = -16 \end{cases} \quad -2 \\ \hline -10x + 6y = 2 \\ \hline 0 = -14 \end{array}$ <p>NO solution</p>	<p>$-2 \begin{cases} 2x - 6y = -2 \\ 4x - 12y = 4 \end{cases} \quad -2$</p> $\begin{array}{r} \hline -4x + 12y = 4 \\ \hline 0 = 8 \end{array}$ <p>NO solution</p>

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8	<p>Use the calculator to find the solutions</p> $\begin{cases} y = x^2 - 3x \\ y = 2x - 4 \end{cases}$ <p>Equate two equations $y = y$</p> $x^2 - 3x = 2x - 4$ $\begin{array}{r} x^2 - 3x \\ -2x \quad -2x \\ \hline x^2 - 5x = -4 \\ 14 \quad 14 \\ \hline x^2 - 5x + 4 = 0 \end{array}$ $\begin{array}{l} x-4=0 \\ 14 \quad 14 \\ \hline x=4 \end{array}$ $\begin{array}{l} x-1=0 \\ 14 \quad 14 \\ \hline x=1 \end{array}$ $y = 2(4) - 4$ $y = 8 - 4 = 4$ $(4, 4)$ $y = 2(1) - 4$ $y = 2 - 4 = -2$ $(1, -2)$	$\begin{cases} y = 3x \\ y = x^2 + 5x - 3 \end{cases}$ $x^2 + 5x - 3 = 3x$ $\begin{array}{r} x^2 + 5x - 3 \\ -3x \quad -3 \\ \hline x^2 + 2x - 3 = 0 \end{array}$ $\begin{array}{l} x+3=0 \\ -3 \quad -3 \\ \hline x=-3 \end{array}$ $\begin{array}{l} x-1=0 \\ 1 \quad 1 \\ \hline x=1 \end{array}$ $y = 3(-3)$ $y = -9$ $(-3, -9)$ $y = 3(1)$ $y = 3$ $(1, 3)$
9	<p>dashed, bottom solid, bottom</p> $\begin{cases} y < -x + 3 \\ y \leq x - 1 \end{cases}$ <p>$m = -1, b = 3$ $m = 1, b = -1$</p> 	<p>dashed, bottom solid, bottom</p> $\begin{cases} y < \frac{1}{2}x - 3 \\ y \leq -\frac{1}{2}x - 1 \end{cases}$ <p>$m = \frac{1}{2}, b = -3$ $m = -\frac{1}{2}, b = -1$</p> 
10	<p>dashed, top dashed, bottom</p> $\begin{cases} y > -\frac{1}{2}x - 2 \\ y < 2x + 3 \end{cases}$ <p>$m = -\frac{1}{2}, b = -2$ $m = 2, b = 3$</p> 	<p>dashed, top solid, bottom</p> $\begin{cases} y > x + 2 \\ y \geq -2x - 1 \end{cases}$ <p>$m = 1, b = 2$ $m = -2, b = -1$</p> 