Quiz: Parallel, Perpendicular & Equations of Lines

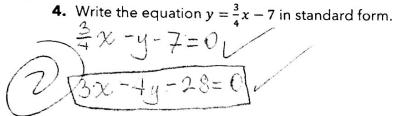
Total:

1. What is the slope of a line that is perpendicular to $y = -\frac{4x}{5} - 6$?

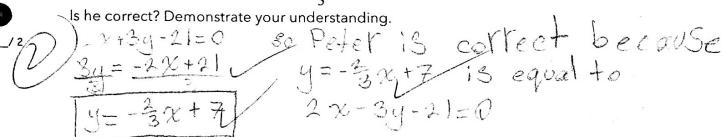
2. What is the slope of a line that is parallel to x - 8y = 4?

2-4=84 y= \x x \\

3. Find the equation of the line parallel to y = -4 and passing through (5,2)

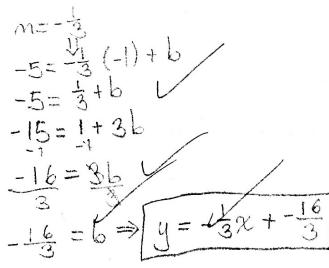


5. Peter states that the equations $y = -\frac{2}{3}x + 7$ and 2x + 3y - 21 = 0 represent the same line.



Find the equation of a line with:

a) Perpendicular to y = 3x + 8 and passing through (-1, -5)



b) Passing through E(-4,2) and

 $M = \frac{3-2}{2^{2}-2} + 2 = -1(-4) + b$ $M = \frac{3-2}{1-6-2} = 4+b$ $M = \frac{5}{5} = -2 = 6$



7. A campsite fee at the national park is \$12.25 per night. Kyle and his friends paid \$113.50 for their 8 night camping trip. The equation relating cost and number of nights is of the form C = mn + b, where C is the total cost and n is the number of nights.

a) Determine the equation that models this situation.

$$113.5 = 12.25(8) + b$$

$$113.5 = 25 + b$$

$$15.5 = b$$

$$15.5 = b$$

$$16.5 = 12.25 + 15.50$$

b) Use your equation to determine the cost of a 14-night camping trip.

8. The total cost of swimming at a community swimming pool is made up of a membership fee and a cost per swim. At this community centre, Mike pays a total of \$115.25 and swims 41 times. Adam pays a total of \$79.25 and swims 25 times.

What is the membership fee? Show your work.

79.25=225 46 membership fee 317=225+46 membership fee 317=225+46 costs 42.25/time

Find the POI for this system of equations.

