

Write your answers in the place provided. Passing is 4 of 5 answers completely correct. You may retake this test if needed. You may not use calculators, notes, books or the paper of another person on this assessment.

1. Solve the inequality $-2x + 3 \le 8$ for x and graph the solution.

-2 x < 5 $\chi = \frac{5}{2} = \frac{-25}{12}$ Answer: $\frac{5}{12}$

2. Solve the inequality $\left| \frac{d-8}{2} \right| < 9$ for d and graph the solution

-10 < d < 26 $-9 < \frac{0-8}{3} < 9$ -18 < 0.8 < 18Answer:

3. Find the slope of the line passing through the points (2, 4) and (7, -4)

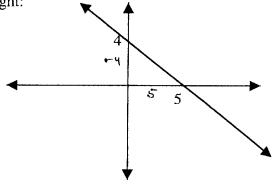
 $M = \frac{Ch my}{Ch mx} = \frac{4 - (-4)}{2 - 7} = \frac{8}{-5}$ Answer: M = -8/5

4. Find the equation of the line passing through the point (-2,3) and perpendicular to the line with equation y = -3/4 x + 2

Slope = - reciprocal of (-3/4) y = 4/3(x - (-2)) + 3= -(-4/3) Answer: $4/3 \times + 17/3$ = 4/2

5. Find the equation of the line with graph as to the right:

Slope = Ching = -4 4 - int = 4.



Answer:
$$y = -\frac{4}{5} \times 4$$