K/U A C TIPS

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 10 17 10 15

**MPM2D Linear Systems Individual Assignment**

1. Solve graphically

A - /5

**2x – y = -1**

**3x + 2y = 16**

1. Show that the point ( 29 , 17 ) is a solution for the system described by

A - /5

 18 18

 **2x + 4y = 7**

 **3x – 3y = 2**

1. Solve the following linear system using the elimination method.

K/U - /5

**x + 5y = -17**

**3x – 4y = 6**

1. Solve the following linear system using the substitution method.

K/U - /5

**2x + y = -5**

**3x + 5y = 3**

1. Solve the following linear system using whichever method you prefer.

A - /7

5x – 5y – 2 + 11 = 0

 3

x + 3 + 4y = -8

 2

1. A Porsche travelled 1.6 times as fast as a BMW. The difference in their speeds was 45 km/h. Determine the speed of each car. Show your work.

TIPS - /5

1. Solve the following word problems using your preferred method

A nut mixture is made from two types of nuts, almonds and cashews; with almonds selling for $7.50/kg and cashews selling for $9.50/kg. How much of each type of nut should be included in a 3 kg mixture that sells for $8.99/kg.

TIPS - /5

Maya inherited $50,000. She invested part of it in a Guaranteed Investment Certificate (GIC) that paid 5% interest per year. The remaining money was invested into a venture capital that returned 10% per year. The total simple interest after 1 year was $4,000. How much did she invest at each rate?

TIPS - /5