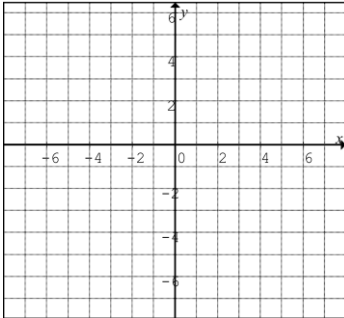


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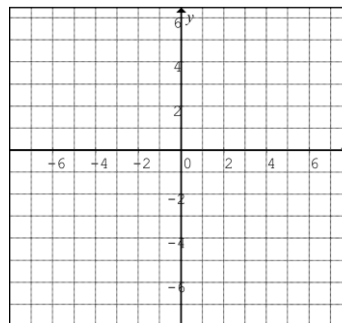
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1. Solve the following by graphing.

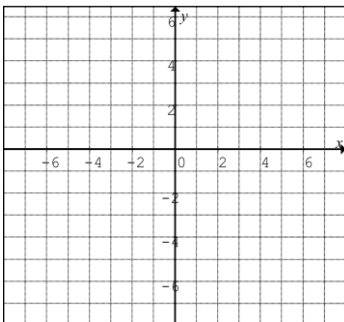
a) $3x - 4y = 8$
 $2y - 3x = 2$



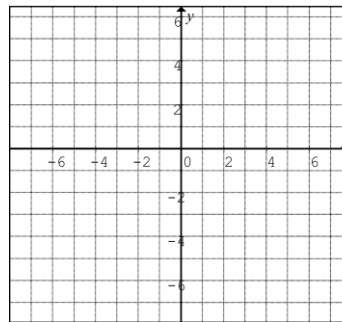
b) $y - x^2 = -5$
 $y - 2x = -2$



c) $y + 5 = (x - 2)^2$
 $y - 5 = -(x - 4)^2$



d) $xy = 6$
 $y - 2x = 4$



2. Solve by using the graphing calculator.

a) $y = x^2 - 4$
 $y = 2x - 5$

b) $y = x^2 + 4x + 3$
 $2y = x + 10$

c) $x^2 + y^2 = 9$
 $y = x^2 - 3$

d) $x - 2y + 1 = 0$
 $xy = 6$

e) $x^2 + 4y^2 = 16$ $y = 2 - x^2$	f) $y = x^2 - 6$ $xy = 5$
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3. Solve algebraically.

a) $2x - y = 3$ $3y + 2x = 15$	b) $x - 2y = 12$ $2y + 3x = 8$
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c) $y = x^2 + 6x + 5$ $3y + x = -15$	d) $xy = -4$ $3x - 2y = -10$
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e) $x^2 + y^2 = 13$ $2x + 3y = 13$	f) $4x^2 + y^2 = 16$ $y = x^2 - 4$
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<p>g) $x^2 + y^2 - 6y = 1$ $xy = -6$</p>	<p>h) $y^2 = -27x$ $x^2 = 8y$</p>
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4. Three footballs and one soccer ball cost \$155. Two footballs and three soccer balls cost \$220. Determine the cost of one football and the cost of one soccer ball.
5. For the athletic banquet, one adult ticket cost \$15.00 and one student ticket costs \$10.00. One hundred forty tickets were sold. The total receipts were \$1600. How many student tickets were sold?
6. A crate of 36 grapefruit has a total mass of 4 kg. When 12 grapefruit are removed, the total mass is 3 kg. Determine the mass of the crate and the mass of one grapefruit.
7. Jennifer invested \$500, part at 7% per annum and the rest at 10% per annum. After one year, the total interest earned was \$44. How much did Jennifer invest at each rate?