

A 40 N force acts on little Logan at  $33^\circ$ , a second force of 50 N acts on her at  $160^\circ$ . What is the result of these forces on little Logan?

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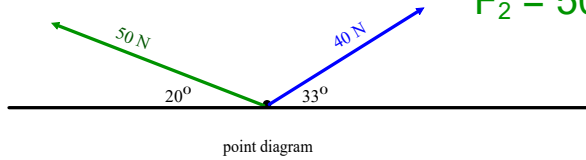
$$F_1 = 40. \text{ N at } 33^\circ$$

$$F_2 = 50. \text{ N at } 160.^\circ$$

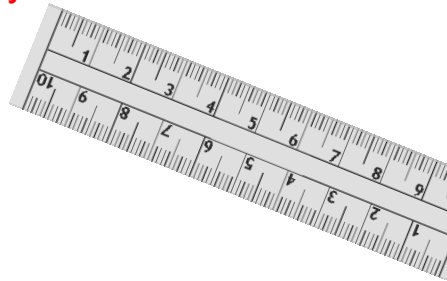
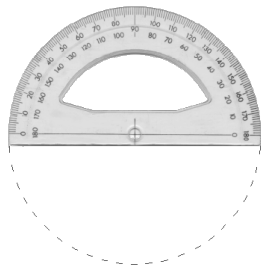
2) Draw a "point diagram"

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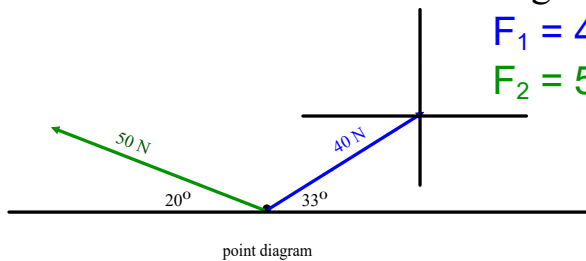


- 1) Data
- 2) Draw a "point diagram"
- 3) Draw an "x" and "y" at the head of  $C_1$



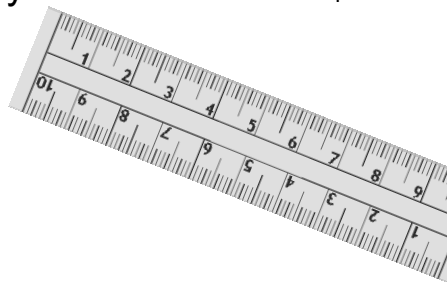
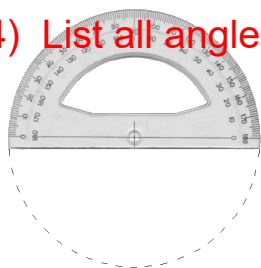
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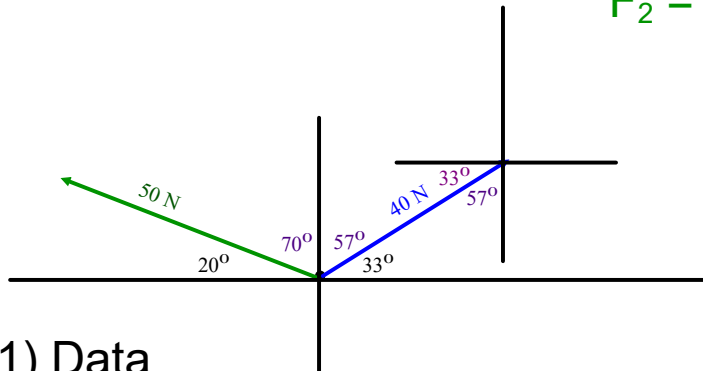
4) List all angles



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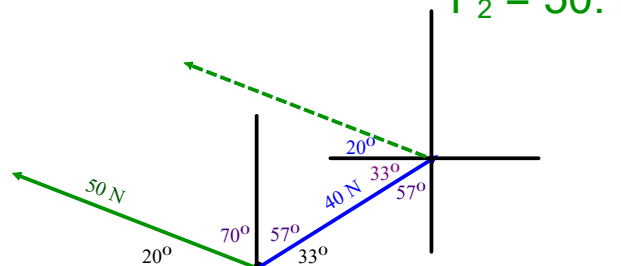


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- 5) Draw the tail of  $C_2$  from the head of  $C_1$

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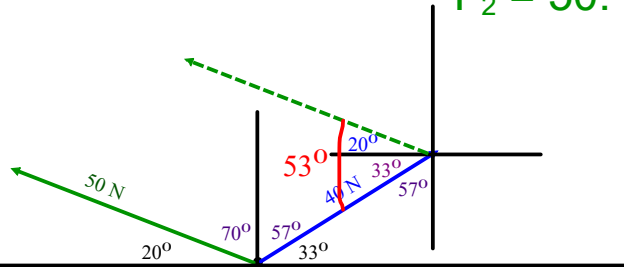


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- 4) List all angles
- 5) Draw the tail of  $C_2$  from the head of  $C_1$
- 6) Find the "happy angle" (angle between  $C_1$  and  $C_2$ )

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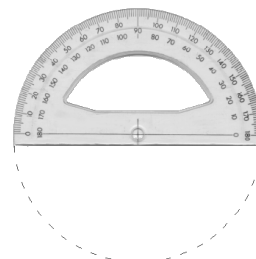
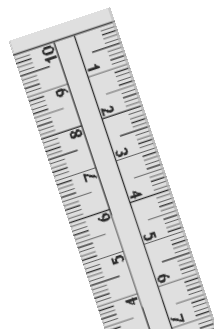
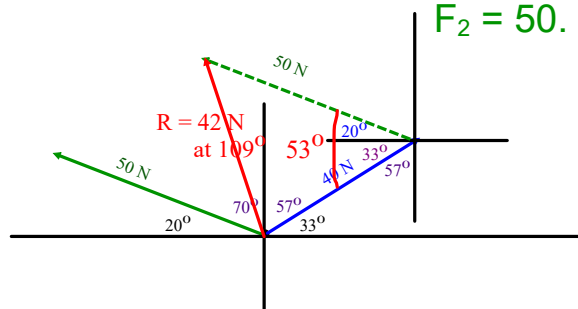


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- 7) Draw the "vector diagram" graphically

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A 70. N force acts on little Sarah at  $133^\circ$ , a second force of 60. N acts on her at  $60^\circ$ . What is the result of these forces on little Sarah?

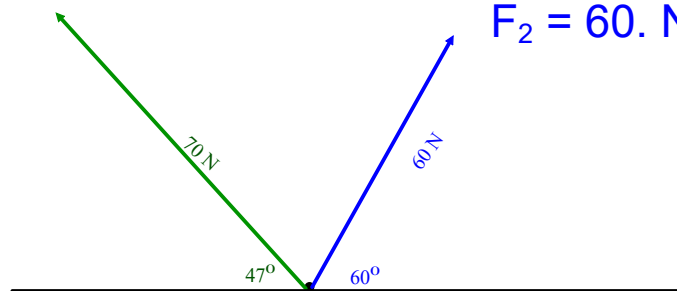
$$F_1 = 70. \text{ N at } 133^\circ$$

$$F_2 = 60. \text{ N at } 60^\circ$$

A 70 N force acts on little Sarah at  $133^\circ$ , a second force of 60 N acts on her at  $60^\circ$ . What is the result of these forces on little Sarah?

$$F_1 = 70. \text{ N at } 133^\circ$$

$$F_2 = 60. \text{ N at } 60^\circ$$

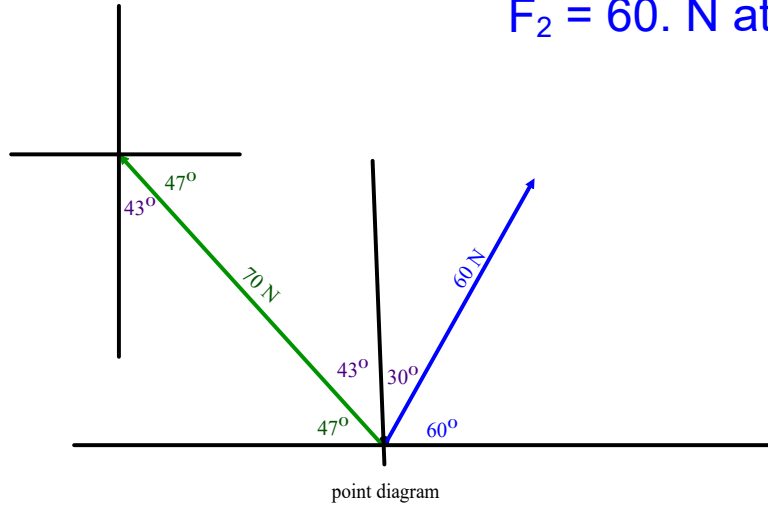


point diagram

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$F_1 = 70. \text{ N at } 133^\circ$

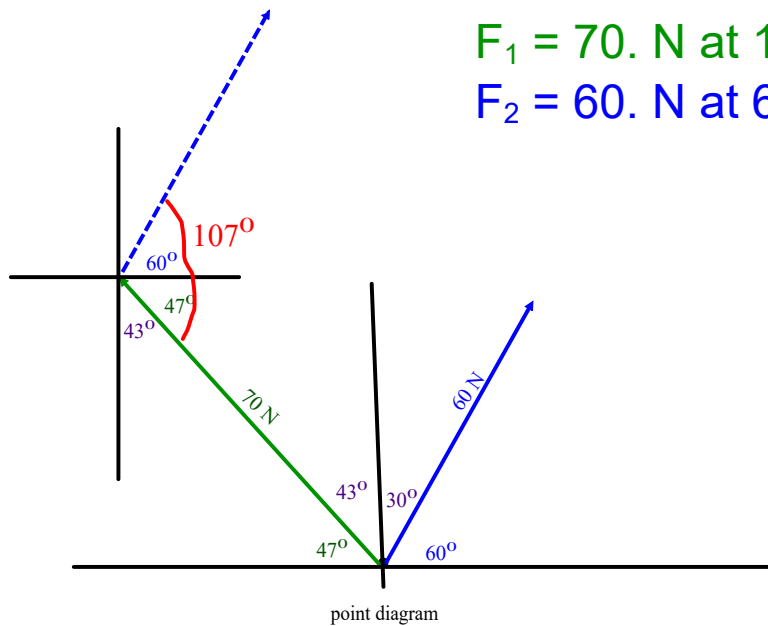
$F_2 = 60. \text{ N at } 60^\circ$



A 70 N force acts on little Sarah at  $133^\circ$ , a second force of 60 N acts on her at  $60^\circ$ . What is the result of these forces on little Sarah?

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