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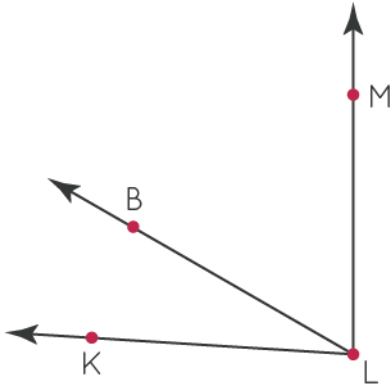
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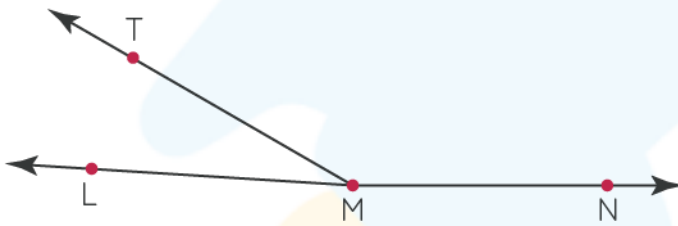
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## Angle Addition Postulate Worksheets

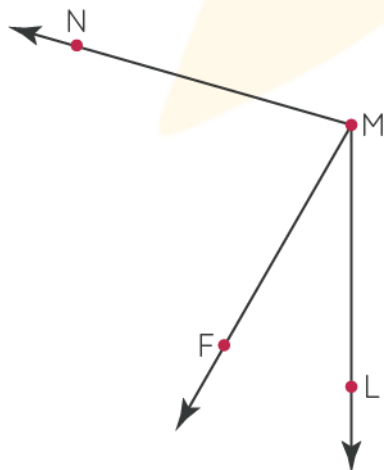
- 1) If  $m\angle BLM = 20^\circ$ , and  $m\angle BLK = 70^\circ$ . Find the value of  $m\angle KLM$ .



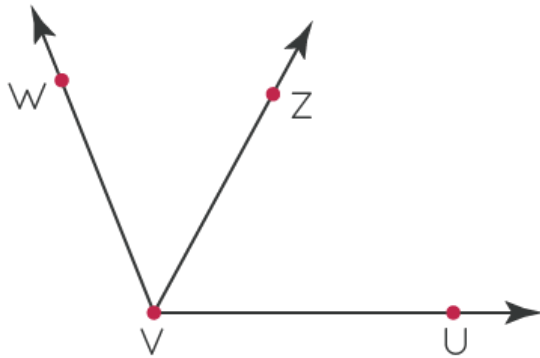
- 2) If the sum of  $m\angle TML$  and  $m\angle TMN$  is  $150^\circ$ . Find the value of  $m\angle TML$  if  $m\angle TMN$  is  $130^\circ$ .



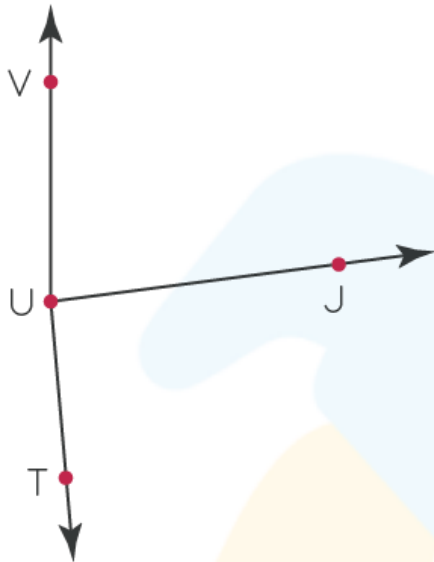
- 3) If the  $m\angle FMN = x + 20$ ,  $m\angle FML = x$ , and  $m\angle TML = 150^\circ$ . Find the measure of  $\angle FMN$  and  $\angle FML$ .



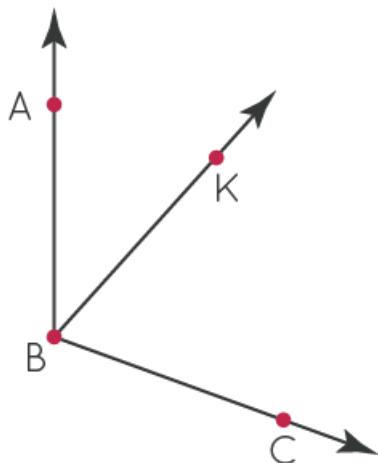
4) If line  $vz$  is the angle bisector of the  $m\angle WVU$ . If  $m\angle ZVU = 60^\circ$ . Find  $m\angle WVU$  and  $m\angle ZVW$ .



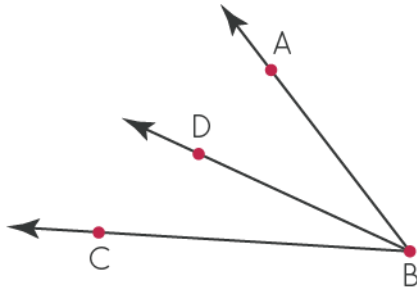
5) Name the greater angle between  $\angle VUJ$  and  $\angle JUT$ , if  $m\angle TUV = 175^\circ$ , and  $m\angle TUJ = 95^\circ$ .



6) If  $m\angle ABK = 4x + 10$ ,  $m\angle CBK = 14x + 3$ , and  $m\angle ABC = 157^\circ$ . Then  $x = \underline{\hspace{2cm}}$ , and  $m\angle CBK = \underline{\hspace{2cm}}$ .



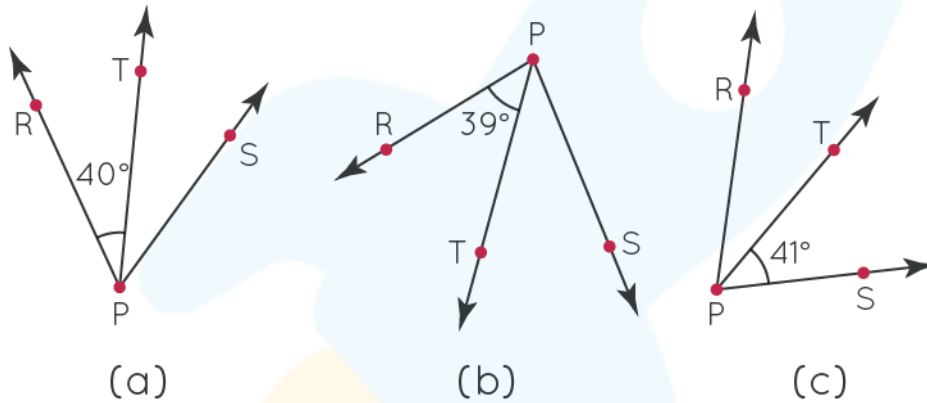
7) Evelyn was drawing angles in her sheet. If  $m\angle ACD = 70^\circ$  and  $BD$  is the angle bisector of  $\angle ABC$ .



Then  $\angle CDB$  is:

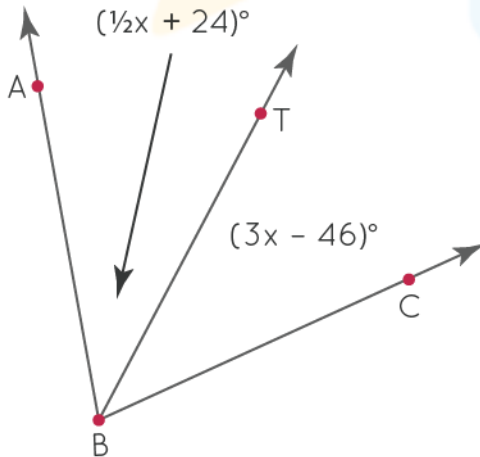
a)  $30^\circ$  b)  $40^\circ$  c)  $70^\circ$  d)  $35^\circ$

8) If  $m\angle RPS = 80^\circ$  and measure of different angles are given below.

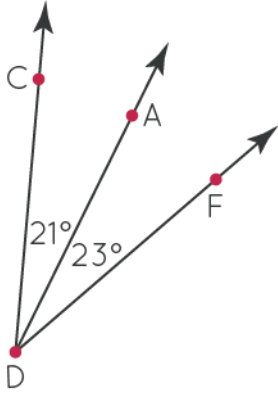


Find the figure where  $m\angle TPS$  is the smallest.

9) Find the measure of  $m\angle ABC$ , if  $x = 40^\circ$ .



10) Find  $m\angle FDC$ .



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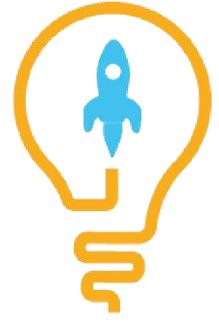
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$90^\circ$
2)	$20^\circ$
3)	$\angle FMN = 65^\circ$ $\angle FML = 65^\circ$
4)	$\angle WVU = 120^\circ$ $\angle ZVW = 60^\circ$
5)	$\angle TUJ$
6)	$x = 8^\circ$ , $CBK = 115^\circ$
7)	c
8)	c
9)	$58^\circ$
10)	$44^\circ$