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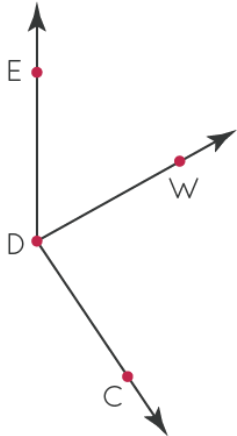
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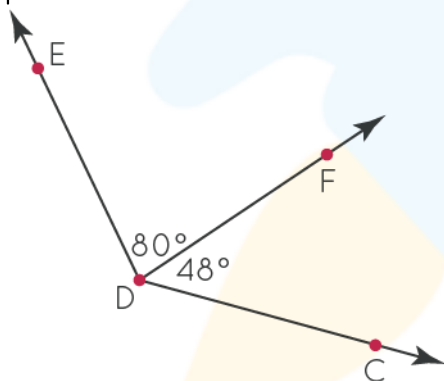
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## Angle Addition Postulate Worksheets

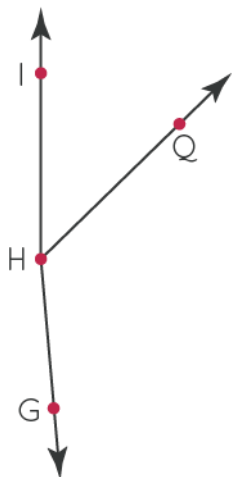
- 1) If the  $m\angle WDC = x + 20$ ,  $m\angle EDW = 2x + 10$ , and  $m\angle EDC = 150^\circ$ . Find the measure of  $\angle EDW$  and  $\angle CDW$ .



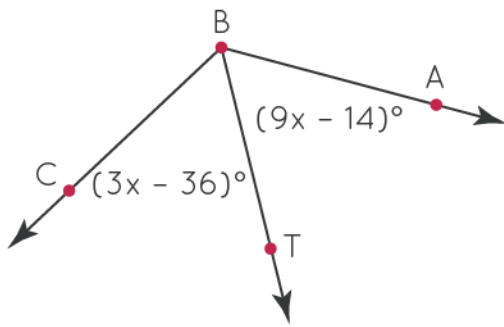
- 2) Find  $m\angle EDC$  if the measure of angles is given in the picture shown below.



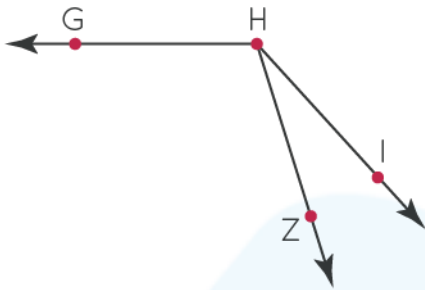
- 3) If  $m\angle GHQ = 130^\circ$ , and  $m\angle QHI = 40^\circ$ . Find the value of  $m\angle GHI$ .



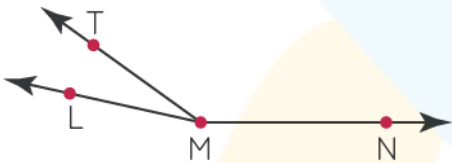
4) If line BT is the angle bisector of the  $m\angle ABC$ . Find all the angles.



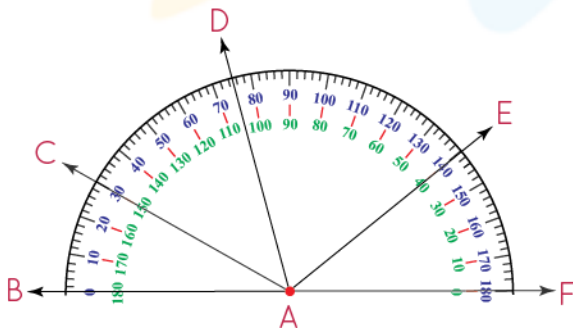
5) Find the measure of  $m\angle GHZ$  if  $m\angle GHZ = 5 m\angle IHZ$ , and  $m\angle GHI = 120^\circ$ .



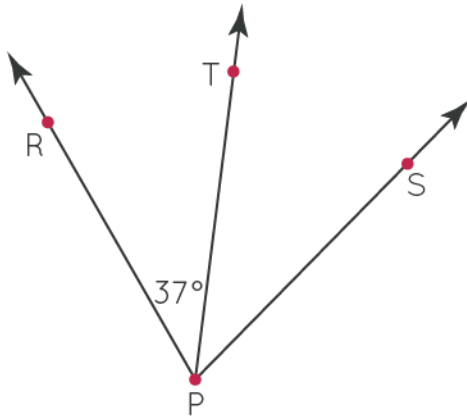
6) If the  $m\angle TMN = x + 72$ ,  $m\angle LMN = 168^\circ$ , and  $m\angle LMT = 96 + x$ . Find  $m\angle LMT$ .



7) Find the  $m\angle EAD + m\angle DAC$ .



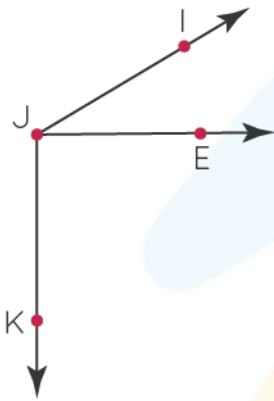
8) If  $m\angle RPS = 64$



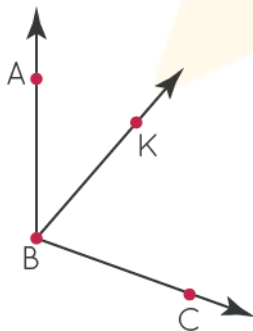
Then  $\angle SPT$  is:

a)  $30^\circ$  b)  $27^\circ$  c)  $37^\circ$  d)  $35^\circ$

9) Find the measure of  $m\angle IJK$ , if  $m\angle IJE = x + 100$ , and  $m\angle EJK = 140^\circ + x$ , and  $x = -40$ .



10) If  $m\angle ABK = 5x + 10$ ,  $m\angle CBK = 6x$ , and  $m\angle ABC = 120^\circ$ . Then  $x = \underline{\hspace{2cm}}$ , and  $m\angle CBK = \underline{\hspace{2cm}}$ .



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- Gary Schwartz

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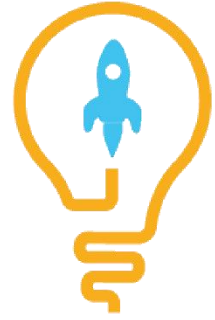
- Kirk Riley

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- Barbara Cabrera

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**ANSWERS**

|     |  |
|-----|--|
| 1)  | $\angle EDW = 90^\circ$<br>$\angle CDW = 60^\circ$                                     |
| 2)  | $\angle EDC = 130^\circ$   |
| 3)  | $170^\circ$  |
| 4)  | $\angle ABT = 24.99^\circ$<br>$\angle CBT = 24.99^\circ$<br>$\angle ABC = 49.98^\circ$ |
| 5)  | $\angle GHZ = 100^\circ$<br>$\angle IHZ = 20^\circ$                                    |
| 6)  | $\angle LMT = 96^\circ$<br>$\angle NMT = 72^\circ$                                     |
| 7)  | $111^\circ$  |
| 8)  | B  |
| 9)  | $\angle IJK = 160^\circ$   |
| 10) | $x = 10^\circ$<br>$\angle CBK = 60^\circ$  |