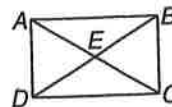


8-4

Skills Practice

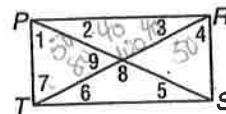
Rectangles

ALGEBRA *ABCD* is a rectangle.



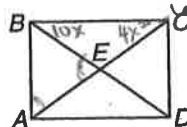
- If $AC = 2x + 13$ and $DB = 4x - 1$, find x . **7**
- If $AC = x + 3$ and $DB = 3x - 19$, find AC . **14**
- If $AE = 3x + 3$ and $EC = 5x - 15$, find AC . **60**
- If $DE = 6x - 7$ and $AE = 4x + 9$, find DB . **82**
- If $m\angle DAC = 2x + 4$ and $m\angle BAC = 3x + 1$, find x . **17**
- If $m\angle BDC = 7x + 1$ and $m\angle ADB = 9x - 7$, find $m\angle BDC$. **43**
- If $m\angle ABD = x^2 - 7$ and $m\angle CDB = 4x + 5$, find x . **6**
- If $m\angle BAC = x^2 + 3$ and $m\angle CAD = x + 15$, find $m\angle BAC$. **67 or 84**

PRST is a rectangle. Find each measure if $m\angle 1 = 50$.



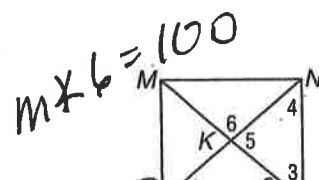
- $m\angle 2$ **40**
- $m\angle 3$ **40**
- $m\angle 4$ **50**
- $m\angle 5$ **40**
- $m\angle 6$ **40**
- $m\angle 7$ **50**
- $m\angle 8$ **100**
- $m\angle 9$ **80**

ABCD is a rectangle.



- If $AE = 36$ and $CE = 2x - 4$, find x . **20**
- If $BE = 6y + 2$ and $CE = 4y + 6$, find y . **2**
- If $BC = 24$ and $AD = 5y - 1$, find y . **5**
- If $m\angle BEA = 62$, find $m\angle BAC$. **59**
- If $m\angle AED = 12x$ and $m\angle BEC = 10x + 20$, find $m\angle AED$. **120**
- If $BD = 8y - 4$ and $AC = 7y + 3$, find BD . **52**
- If $m\angle DBC = 10x$ and $m\angle ACB = 4x^2 - 6$, find $m\angle ACB$. **30**
- If $AB = 6y$ and $BC = 8y$, find BD in terms of y . **10y**

9. In rectangle *MNOP*, $m\angle 1 = 40$. Find the measure of each numbered angle.



- $m\angle 2 = 40$ $m\angle 3 = 50$ $m\angle 4 = 50$ $m\angle 5 = 80$ $m\angle 6 = 100$