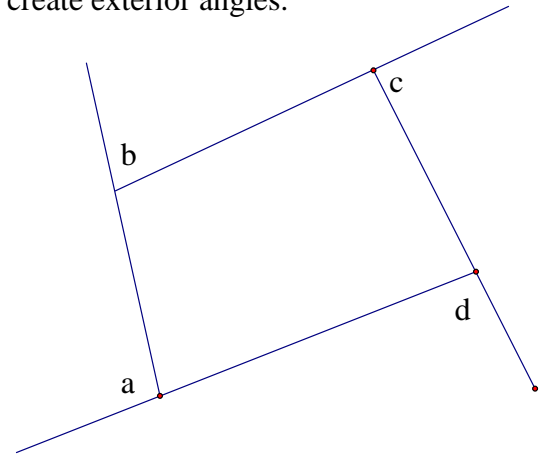
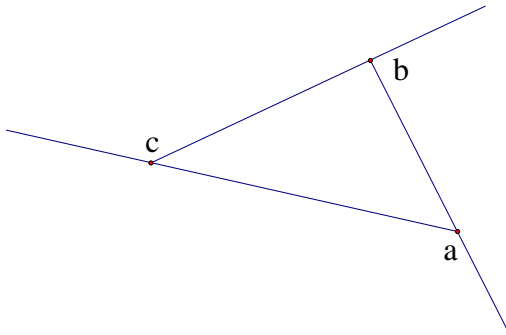


Exterior Angles of a Polygon

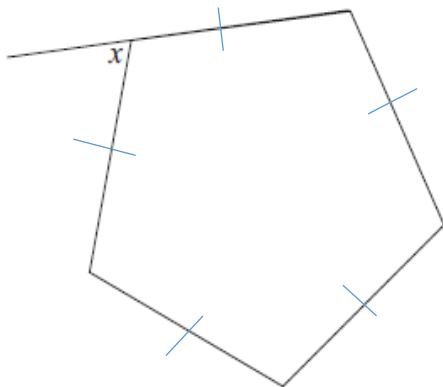
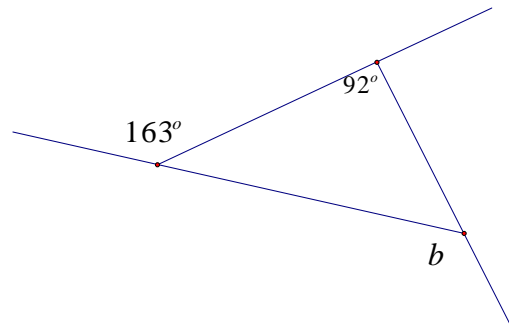
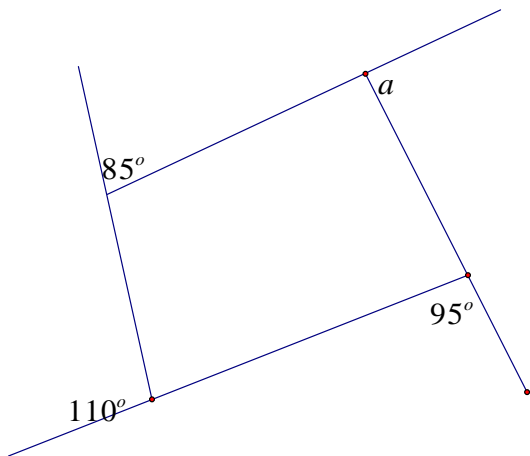
MFM1P

Exterior Angles – by extending one side of a polygon we can create exterior angles.



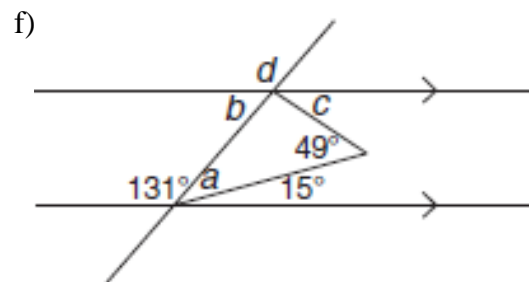
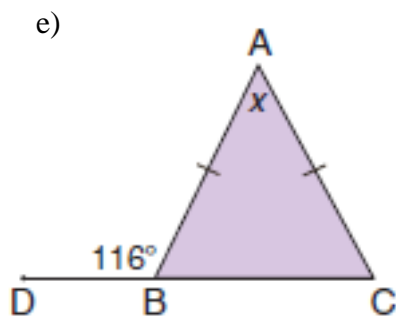
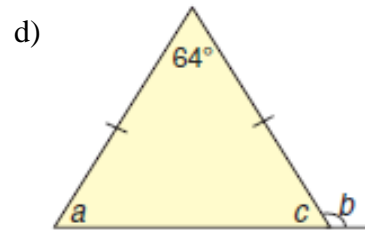
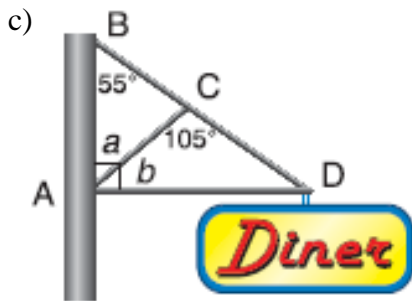
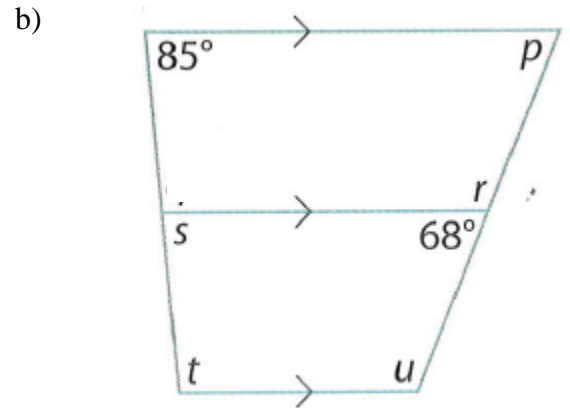
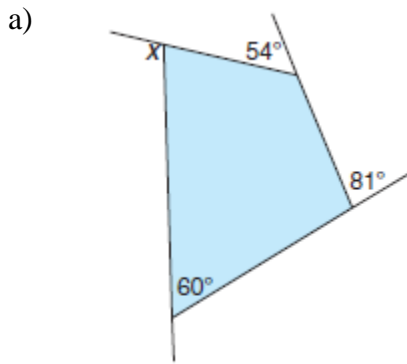
What do you think the sum of the exterior angles in each diagram above is equal to?

Determine the unknown angles in each figure below.

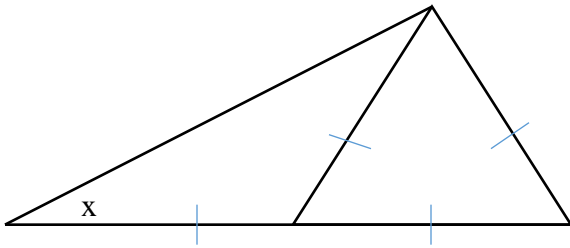


Problem Set

1. Find the value of the unknown variables in each diagram below.



2. Find the value of x in the diagram below.



3. Text page 371 #2, 3, 4
4. Text page 366 #8cd, 9bc

ANSWERS

1. a) 105 b) $u=112, r=112, p=68, s=85, t=115$ c) $a=50, b=40$ d) $a=58, c=58, b=122$ e) 52 f)
 $a=34, b=49, c=34, d=131$ 2. $x=30$ 7. $x = 60, y = 133$ 8. $x = 120, y=132$