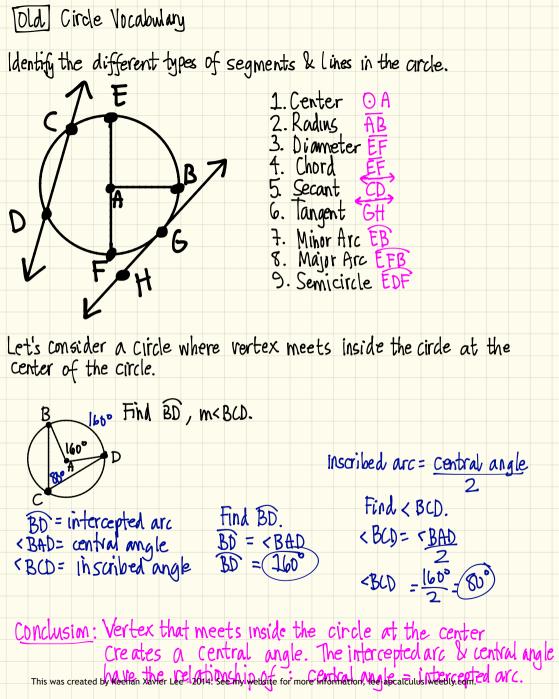
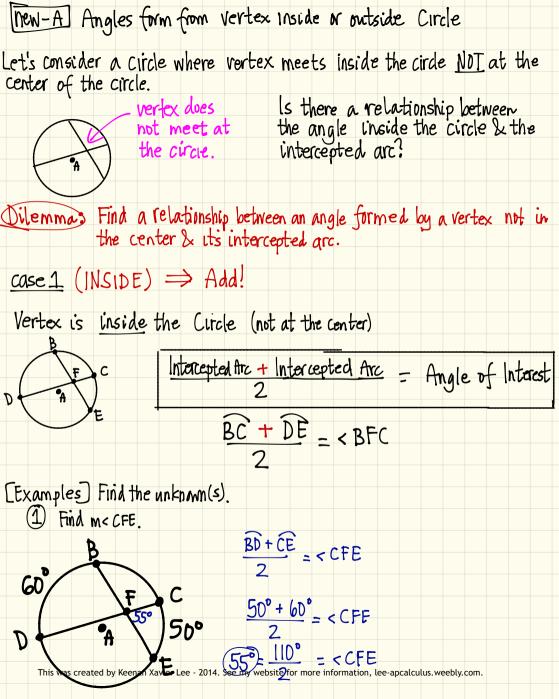
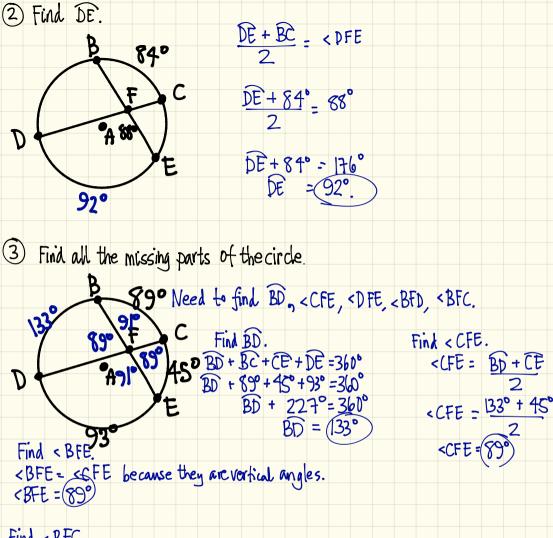
3.3 Sides (Angles) where vertex is outside & vertex is inside of Circle.







find < BFC. <BFC + < CFE = 180° because they are a linear pair. <BFC + 890 = 100°

<BFC = (91°

Find < DFE. < DFE = 919 DECLARAGE TO 2011 SHETTY COUNTY IN SE INFORMATION, lee-apcalculus.weebly.com. Vertex is Outside the Circle (not at the center)

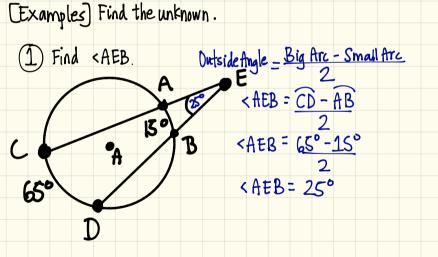
Two Secants

Two Tangents

Dutside Angle

Bigger Arc - Smaller Arc - Dutside Angle

case 2 (OUTSIDE) ⇒ Subtract!



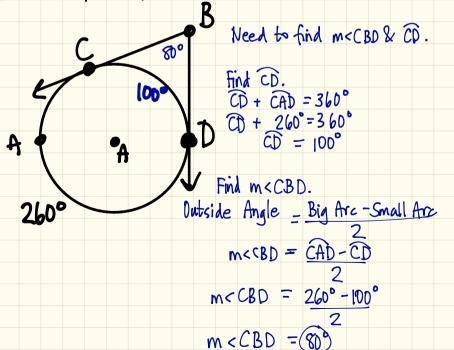
$$\frac{2}{10^{\circ} - AB} = 27^{\circ}$$

$$\frac{2}{70^{\circ} - AB} = 54^{\circ}$$

$$-AB = 16^{\circ}$$

$$AB = 16^{\circ}$$

3 Find all parts of the unknowns in the circle.

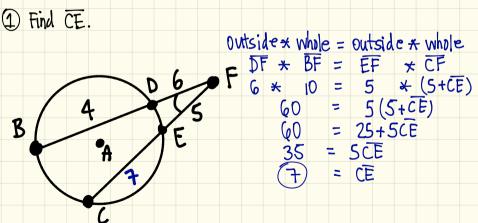


This was created by Keenan Xavier Lee - 2014. See my website for more information, lee-apcalculus.weebly.com.

Let's talk about segment measures... case 1 Vertex is inside the Circle (not at the center) part * part = part * part [Examples] Find the unknown. Find AE.

New-B Segments form from vertex inside or outside Circle

case 2 Vertex is outside the Circle (not at the center) b Two Tangents Two Secants One Secant & One Tangent Outside * whole = Outside * whole b * (a+b) = 1 * (c+d) (Examples) Find the unknown.



This was created by Keenan Xavier Lee - 2014. See my website for more information, lee-apcalculus.weebly.com.

2) Find PR. outside * whole = outside * whole PR * QR = RS * RT 10 *(10+QP)= 9 * 20 P 10 10 (10 + QP) = 180 100+1000 = 100 1007 = 80 3 Find CD. outside x whole - outside * whole $5 * 5 = 4 * (4+c\overline{D})$ $25 = 4(4+c\overline{D})$ $\frac{25}{9} = \frac{16}{4} + \frac{4}{5} = \frac{1}{10}$ $2.25 = \frac{9}{4} = \overline{CD}$ note: Dutside & whole are the same in tangents. 4 Find AB. outside x whole = outside * whole 10.57 \overrightarrow{AB} * \overrightarrow{AB} = \overrightarrow{BC} * \overrightarrow{BD} \overrightarrow{AB}^2 = $\overrightarrow{112}$ $\sqrt{\overrightarrow{AB}^2}$ = $\sqrt{112}$ AB = 1112 = 417 = 10.58 This was created by Keylan Xavier Lee - 2014. See my website for more information, lee-apcalculus.weebly.com.

