Parallel Vectors

Vectors has same slope (
$$\frac{y}{x}$$
)

Vectors has same slope ($\frac{y}{x}$)

Orthogonal (Perpundicular)

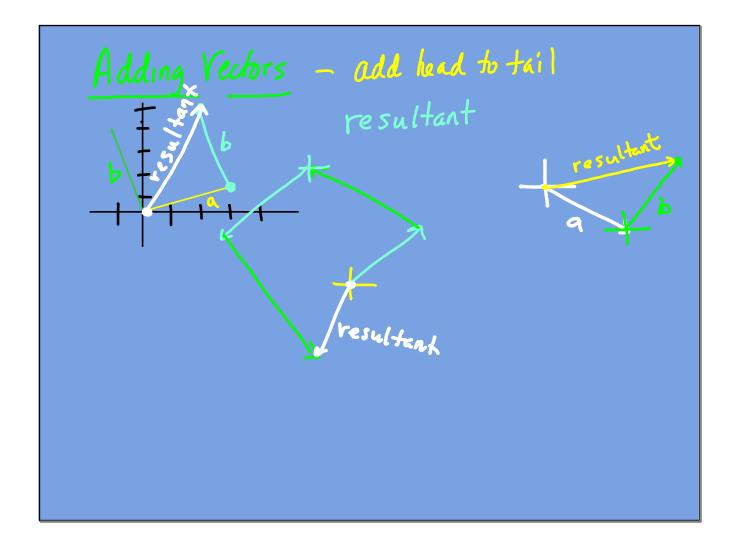
Vectors

Orthogonal if dot product

 $Ax^2 Ay$
 $Ax^2 Ay$
 $Ax^2 Ay$
 $Ax^2 Ay$
 $Ax^2 Ay$

Parallel?

 $Ax^2 Ay$
 $Ax^2 Ay$



120 M force acting at 20°

30 M force acting at 100°

What 15 the magnitude advection of:

resultant force

Start h and)

$$X = 120^2 + 80^2 - 2(120)(80) \cos 100^2$$

$$X = 155 N$$
155 N 4 51°

120 N force acting at 20°

30 N force acting at 100°

What is the magnitude advection of:

3rd force that produces equilibrium.

250 Sin C =
$$\frac{5 \text{in } 100^{\circ}}{155}$$
 $\frac{360}{155}$
 $\frac{360}{155}$

