

**Dot Products REDEMPTION****Find the dot product of the given vectors.**

1)  $\mathbf{u} = \langle 5, -2 \rangle$   
 $\mathbf{v} = \langle 7, 5 \rangle$

2)  $\mathbf{u} = \langle 8, 9 \rangle$   
 $\mathbf{v} = \langle -4, 4 \rangle$

3)  $\mathbf{u} = \langle -2, 9 \rangle$   
 $\mathbf{v} = \langle -2, -6 \rangle$

4)  $\mathbf{u} = \langle 4, -3 \rangle$   
 $\mathbf{v} = \langle -8, 6 \rangle$

**Find the measure of the angle between the two vectors.**

5)  $\mathbf{u} = \langle 7, -9 \rangle$   
 $\mathbf{v} = \langle -2, -4 \rangle$

6)  $\mathbf{u} = \langle -3, -4 \rangle$   
 $\mathbf{v} = \langle 4, 1 \rangle$

**Find the magnitude USING THE DOT PRODUCT.**

7)  $\mathbf{a} = \langle 14, -48 \rangle$

8)  $\mathbf{k} = \langle -10, -24 \rangle$

**Dot Products REDEMPTION****Find the dot product of the given vectors.**

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 $\mathbf{v} = \langle -2, -6 \rangle$

-50

4)  $\mathbf{u} = \langle 4, -3 \rangle$   
 $\mathbf{v} = \langle -8, 6 \rangle$

-50

**Find the measure of the angle between the two vectors.**

5)  $\mathbf{u} = \langle 7, -9 \rangle$   
 $\mathbf{v} = \langle -2, -4 \rangle$

64.44°

6)  $\mathbf{u} = \langle -3, -4 \rangle$   
 $\mathbf{v} = \langle 4, 1 \rangle$

140.91°

**Find the magnitude USING THE DOT PRODUCT.**

7)  $\mathbf{a} = \langle 14, -48 \rangle$

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8)  $\mathbf{k} = \langle -10, -24 \rangle$

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