FindRoot[Cos[x] == x, 
$$\{x, 0\}$$
]

$$\{x \rightarrow 0.739085\}$$

FindRoot 
$$[e^x - 3x^2 = 0, \{x, 0.5\}]$$

$$\{x \rightarrow 0.910008\}$$

FindRoot 
$$[e^x - 3x^2 = 0, \{x, -1\}]$$

$$\{x \rightarrow -0.458962\}$$

FindRoot 
$$\left[e^{x} - 3x^{2} = 0, \{x, 3\}\right]$$

$$\{\,x\rightarrow3.73308\,\}$$

$$V = \{1, -2, 3\};$$

$$u = 4v$$

$$\{4, -8, 12\}$$

#### u.v

56

## Cross[u, v]

$$\{-cy+bz,cx-az,-bx+ay\}$$

$$\{-35, -17, 14\}$$

### Norm[u]

$$4\sqrt{14}$$

# Normalize[u]

$$\left\{\frac{1}{\sqrt{14}}, -\sqrt{\frac{2}{7}}, \frac{3}{\sqrt{14}}\right\}$$

## N[%]

## Column[%]

VectorAngle[{1, 0}, {1, 1}]

4

VectorAngle[{2, 0, 5}, {-3, 7, 1}]

$$\operatorname{ArcCos}\Big[-\frac{1}{\sqrt{\mathbf{1711}}}\Big]$$

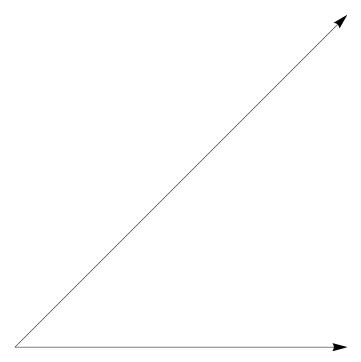
N[%]

1.59497

VectorAngle[{1, 0, 1}, {0, 1, 0}]

 $\frac{\pi}{2}$ 

 $\label{eq:Graphics} $$\operatorname{Graphics}[\{Arrow[\{\{0,\,0\},\,\{1,\,0\}\}],\,Arrow[\{\{0,\,0\},\,\{1,\,1\}\}]\}]$$}$ 



 $\label{eq:Graphics} $$ \operatorname{Graphics}[\{Arrow[\{\{0,\,0\},\,\{-1,\,0\}\}],\,Arrow[\{\{0,\,0\},\,\{1,\,-1\}\}]]\}]$$ 

