Find the magnitude of v = <2, 4, 4>.

u = <-4, -3, 1> and v = <-3, 3, 4>. Find u · v.

u = <6, -5, 3> and v = <6, 6, -5>. Find 2u + v.

u = <-1, 0, -1> and v = <0, -1, -1>. Find u × v.

u = <2, 0, -1> and v = <-1, -1, -3>. Find u · v.

Find the magnitude of v = <2, 6, 9>.

Find the magnitude of v = <2, 9, 6>.

u = <-4, -2, -1> and v = <-4, -4, 3>. Find u · v.

Vectors in 3D: Dot & Cross Products · 2

ANSWER

7

Vectors in 3D: Dot & Cross Products · 1

ANSWER

6

Vectors in 3D: Dot & Cross Products · 4

ANSWER

<-1, -1, 1>

Vectors in 3D: Dot & Cross Products · 3

ANSWER

<18, -4, 1>

Vectors in 3D: Dot & Cross Products · 6

ANSWER

11

Vectors in 3D: Dot & Cross Products · 5

ANSWER

1

Vectors in 3D: Dot & Cross Products · 8

ANSWER

21

Vectors in 3D: Dot & Cross Products · 7

ANSWER

11

Find the magnitude of v = <-4, 2, 4>.

u = <-3, 4, 1> and v = <-5, 1, 2>. Find u · v.

u = <4, 3, -3> and v = <-4, 0, 1>. Find 2u - 2v.

u = <0, 3, 1> and v = <0, 4, -4>. Find u × v.

u = <-4, -2, -1> and v = <3, -1, -1>. Find u · v.

Find the magnitude of v = <2, -1, 2>.

Find the magnitude of v = <6, 2, 9>.

u = <0, 2, -4> and v = <1, -3, 1>. Find u · v.

Vectors in 3D: Dot & Cross Products · 10

ANSWER

21

Vectors in 3D: Dot & Cross Products · 9

ANSWER

6

Vectors in 3D: Dot & Cross Products · 12

ANSWER

<-16, 0, 0>

Vectors in 3D: Dot & Cross Products · 11

ANSWER

<16, 6, -8>

Vectors in 3D: Dot & Cross Products · 14

ANSWER

3

Vectors in 3D: Dot & Cross Products · 13

ANSWER

-9

Vectors in 3D: Dot & Cross Products · 16

ANSWER

-10

Vectors in 3D: Dot & Cross Products · 15

ANSWER

11

u = <6, 2, -4> and v = <-1, -4, 2>. Find u · v.

u = <0, 1, 3> and v = <3, 2, -2>. Find u × v.

Find the magnitude of v = <10, 11, -2>.

Are u = <-2, 0, -3> and v = <0, -2, 2> perpendicular? Write yes or no.

u = <2, 1, 6> and v = <1, -2, -5>. Find 4u + 3v.

u = <4, 4, 0> and v = <0, 5, -2>. Find u × v.

Find the distance between the points P(-4, 3, 1) and Q(-1, -9, 5).

u = <-5, -1, 4> and v = <-2, -1, 6>. Find u · v.

Vectors in 3D: Dot & Cross Products · 18

ANSWER

<-8, 9, -3>

Vectors in 3D: Dot & Cross Products · 17

ANSWER

-22

Vectors in 3D: Dot & Cross Products · 20

ANSWER

no

Vectors in 3D: Dot & Cross Products · 19

ANSWER

15

Vectors in 3D: Dot & Cross Products · 22

ANSWER

<-8, 8, 20>

Vectors in 3D: Dot & Cross Products · 21

ANSWER

<11, -2, 9>

Vectors in 3D: Dot & Cross Products · 24

ANSWER

35

Vectors in 3D: Dot & Cross Products · 23

ANSWER

13