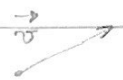
cálculo 2, stewart vol 2, ed 8, cap 12.2

9 $A(-2,1)$ $B(1,2)$

$\vec{V} = (3,1)$




11 $A(3,-1)$ $B(2,3)$

$\vec{V} = (-1,4)$


13 $A(0,3,1)$ $B(2,3,-1)$

$\vec{V} = (2,0,-2)$

15 $(-1,5)+(6,-1) = (5,4)$

17 $(3,0,1)+(0,8,0) = (3,8,1)$

19 $a+b = (-3,4)+(9,-1) = (6,3)$

$4a+2b = (-12,16)+(18,-2) = (6,14)$

$|a| = \sqrt{9+16} = \sqrt{25} = 5$

$|a-b| = |(-12,5)| = \sqrt{144+25} = 13$

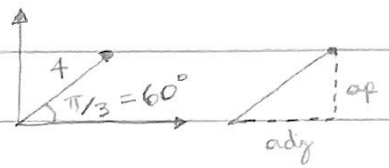
23 $(6,-2) \rightarrow \|\vec{v}\| = \sqrt{36+4} = \sqrt{40} = 2\sqrt{10}$

vetor unitário $= \left(\frac{6}{2\sqrt{10}}, \frac{-2}{2\sqrt{10}}\right) = \left(\frac{3}{\sqrt{10}}, \frac{-1}{\sqrt{10}}\right)$

25 $8i - j + 4k \rightarrow (8,-1,4) \rightarrow \|\vec{v}\| = \sqrt{64+1+16} = \sqrt{81} = 9$

vetor unitário $= \left(\frac{8}{9}, \frac{-1}{9}, \frac{4}{9}\right)$

29




$\sin 60° = \frac{\sqrt{3}}{2} = \frac{op}{4}$ $\quad op = 2\sqrt{3}$

$\cos 60° = \frac{1}{2} = \frac{adj}{4}$ $\quad adj = 2$

$\vec{v} = (2, 2\sqrt{3})$