

16.1 homework

1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 23, 25, 29, 31

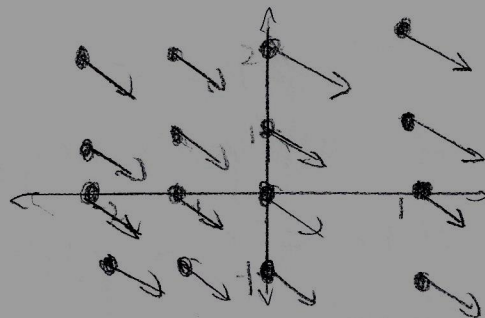
① $F(x, y) = 0.3i - 0.4j = \langle 0.3, -0.4 \rangle$

$F(0, 0) = \langle 0.3, -0.4 \rangle$

$\langle 0.3, -0.4 \rangle$

$F(-1, 2) = \langle 0.3, -0.4 \rangle$

for $x \wedge y$



③ $F(x, y) = -\frac{1}{2}i + (y-x)j$

$F(x, y) = \langle -\frac{1}{2}, y-x \rangle$

$F(0, 0) = \langle -\frac{1}{2}, 0 \rangle$

$F(0, 1) = \langle -\frac{1}{2}, -1 \rangle$

$F(1, 0) = \langle -\frac{1}{2}, 0 \rangle$

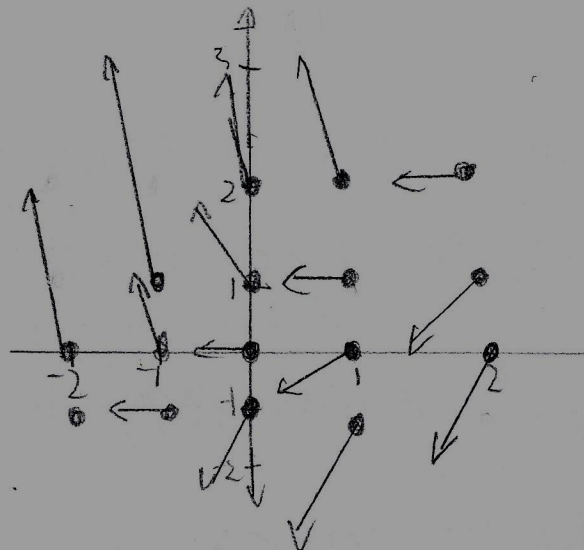
$F(1, 1) = \langle -\frac{1}{2}, 2 \rangle$

$F(-1, 1) = \langle -\frac{1}{2}, 0 \rangle$

$F(1, -1) = \langle -\frac{1}{2}, -2 \rangle$

$F(0, 1) = \langle -\frac{1}{2}, 1 \rangle$

$F(1, 2) = \langle -\frac{1}{2}, 1 \rangle$



⑤ $F(x, y) = \frac{yi + xj}{\sqrt{x^2 + y^2}} = \langle \frac{y}{\sqrt{x^2 + y^2}}, \frac{x}{\sqrt{x^2 + y^2}} \rangle$

$F(0, 1) = \langle 1, 0 \rangle$

$F(1, 0) = \langle 0, 1 \rangle$

$F(0, -1) = \langle -1, 0 \rangle$

$F(-1, 0) = \langle 0, -1 \rangle$

$F(1, 1) = \langle \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \rangle$

$F(-1, -1) = \langle \frac{-1}{\sqrt{2}}, \frac{-1}{\sqrt{2}} \rangle$

$F(1, -1) = \langle \frac{-1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \rangle$

$F(-1, 1) = \langle \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \rangle$

$F(0, 2) = \langle 0, 1 \rangle$

$F(2, 0) = \langle 1, 0 \rangle$

