

เฉลยแบบฝึกหัด 14.8

1.

1.1 $\frac{8}{\sqrt{5}}$

1.2 $6\sqrt{2}$

1.3 $\frac{e}{\sqrt{2}}$

1.4 $\frac{-3}{\sqrt{10}}$

1.5 $\frac{1}{2\sqrt{2}}$

1.6 $-8\sqrt{2}$

1.7 $\frac{-1}{\sqrt{5}}$

2. $\frac{-174}{\sqrt{17}}$

3. $\vec{u} = \left(\frac{2}{\sqrt{5}}, \frac{1}{\sqrt{5}}\right)$ หรือ $\left(-\frac{2}{\sqrt{5}}, -\frac{1}{\sqrt{5}}\right)$

4. $1 + \frac{\sqrt{3}}{2}$

5. 5.1) $\frac{1}{\sqrt{5}}$

5.2) $\frac{1}{\sqrt{5}}$

6. แก่ใจทย์ $f'((1,2), \vec{u}) = 5$

6.1) 5, 10

6.2) $-5\sqrt{5}$

7. $\vec{u} = \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ หรือ $\left(-\frac{1}{\sqrt{2}}, -\frac{1}{\sqrt{2}}\right)$