

เฉลยแบบฝึกหัด 11.3

1. $\frac{1}{13}$

2. $\frac{1}{5}$

3. $\frac{1}{13}$

4. 4

5. $-\frac{1}{4}$

6. -1

7. $\frac{3}{64}$

8. 1

ข้อ 1 $f(x) = x^3 - \frac{4}{x}, a = 6$

ตัวอย่างวิธีทำ

$$6 = f(x) = x^3 - \frac{4}{x} \Leftrightarrow x = 2$$

$$f'(x) = 3x^2 + \frac{4}{x^2}$$

$$(f^{-1})'(6) = \frac{1}{f'(2)} = \frac{1}{13}$$