

**Svar till diagnostiskt självtest.**  
**Matematisk analys D.**

1. Exercises P6/P7, sid 55: 14 , 26 , 28  
26:  $\sin(\theta) = \frac{2}{\sqrt{5}}$  ,  $\cos(\theta) = \frac{1}{\sqrt{5}}$  28:  $\sin(\theta) = \frac{12}{13}$  ,  $\tan(\theta) = -\frac{12}{5}$
2. Exercises Chapter 2 Review, sid 171/158: 10 , 22  
10:  $-\frac{\sin x \cos x}{\sqrt{2+\cos^2 x}}$  , 22:  $f'(\frac{g(x^2)}{x}) \frac{2x^2 g'(x^2) - g(x^2)}{x^2}$
3. Exercises 3.5, sid 212/195: 6 , 22  
6:  $\sqrt{0.51}$  , 22:  $\sin^{-1}(x) + \frac{x}{\sqrt{1-x^2}}$
4. Exercises 4.9, sid 298/269: 4 , 16 , 18  
4:  $\frac{a^2}{b^2}$  , 16:  $-\frac{1}{12}$  , 18 : 0
5. Exercises 5.5, sid 333/301: 12 , 40  
12:  $2\pi$  , 40:  $-\frac{\sin t}{t}$
6. Exercises Chapter 6 Review, sid 404/365: 10 , 12 , 26  
10:  $\frac{1}{8} \ln |\frac{x-3}{x+5}| + C$  , 12:  $x - \frac{1}{2} \cos(2x) + C$  , 26:  $\frac{\pi}{2}$