

Seite 1:

1

a) $a = 1; \quad p = 4\pi$

b) $a = 3; \quad p = 2$

c) $a = 0,2; \quad p = \frac{8}{3}$

2

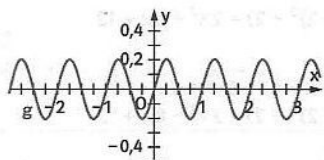
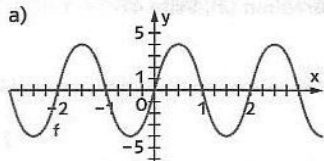
a) $f(x) = 2 \cdot \sin(2x)$

b) $f(x) = \pi \cdot \sin(\pi x)$

c) $f(x) = 0,3 \cdot \sin\left(\frac{20}{3}\pi \cdot x\right)$

3

a)



Seite 2:

1

a) $a = 1; \quad p = 4\pi$

b) $a = 3; \quad p = 2$

c) $a = 0,2; \quad p = \frac{8}{3}$

2

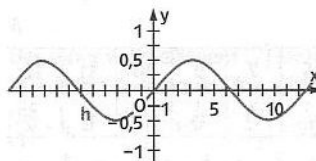
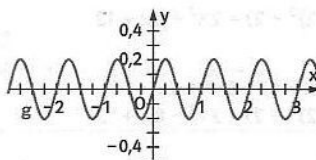
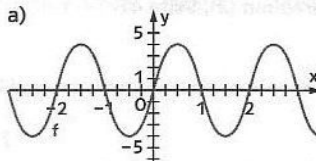
a) $f(x) = 2 \cdot \sin(2x)$

b) $f(x) = \pi \cdot \sin(\pi x)$

c) $f(x) = 0,3 \cdot \sin\left(\frac{20}{3}\pi \cdot x\right)$

3

a)



b) links: $p = 1; \quad a = 0,5; \quad f(x) = 0,5 \cdot \sin(2\pi \cdot x)$

Mitte: $p = \frac{2}{3}\pi; \quad a = 1,5; \quad f(x) = 1,5 \cdot \sin(3 \cdot x)$

rechts: $p = 2; \quad a = 2; \quad f(x) = 2 \cdot \sin(\pi \cdot x) + 1$

4

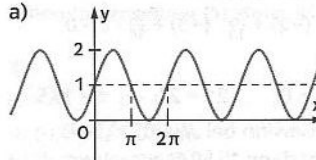
a) $f(x) = \sin(2\pi \cdot x) + 2$

b) $f(x) = 2 \cdot \sin(2 \cdot x) + 2$

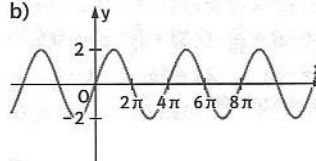
c) $f(x) = \sin\left(\frac{\pi}{2} \cdot x\right)$

5

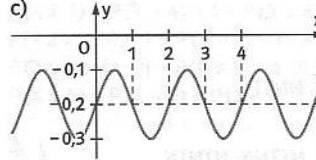
a)



b)



c)



6

$a = 2,5; \quad b = 0,5; \quad d = -1,5$