Plan: 9.5.3a, 9.5.3b, 9.5.3e, 9.5.5, 9.5.14, 9.3.17, 9.3.25, 9.3.31, 9.4.8, 8.4.10, 9.5.1c, 9.5.1e, FVA.1.2.17, FVA.1.2.21, FVA.1.2.25

Argior on
$$\int_{x+2}^{x+1} dx = \int_{x+2}^{x+1} dx = \int_{x+2}^{x+1} dx = \int_{x+1}^{x+1} dx = \int$$

9.5.14 La $g(x) = \frac{1}{x}$ $1 \le x < \infty$ og her f(x) om x-algen. a) Vis at Gabriels Fronzeet has endely volum. $V = \left(\frac{1}{11} \cdot \frac{1}{2} \right)^2 = \frac{1}{12} \cdot \frac{1}{2} \cdot$ $= (-\frac{1}{x})^{\infty} = -\frac{1}{x}$ for volumet kil Vis at tronguelen har wendelig $A = 2\pi \iint_{(x)} \sqrt{1+J(x)^2} dx = \sqrt{1+\frac{1}{x^4}} dx$ $= 2 \pi \left(\frac{1}{x} \right) \left(\text{ Sides } \left(\frac{1}{x^{4}} \right) \right)$ Si averflaten bil krompele, v ille endelig.

() Vi maler ingder av krompeten med a fylle loompeter med enlelig myl maling. Hverfor gir lefte mening? $=1+\frac{1}{2}+\frac{1}{4}+\cdots+\frac{1}{2^{n}}+\cdots=2$

9.3. 17
39xeyn
$$\sqrt{\frac{2}{x^3+8}}$$

Georetick while: $x^3+8=x^3-(-2)^3=(x-(-2))$.

 $(x^2+(-2)\cdot x+(-2)^2)=(x+2)(x^3-2x+4)$
 $\frac{1}{x^3+8}=\frac{1}{(x+2)}(x^2-3x+4)=\frac{A}{x^2-3x+4}$
 $\frac{1}{x^3+8}=\frac{1}{(x+2)}(x^2-3x+4)=\frac{A}{x^2-3x+4}$
 $\frac{1}{x^3+8}=\frac{1}{12}(\frac{1}{x^2}+\frac{1}{x^2-3x+4})=\frac{A}{x^2-3x+4}$
 $\frac{1}{x^3+8}=\frac{1}{12}(\frac{1}{x^2}+\frac{1}{x^2-3x+4})=\frac{A}{x^2-3x+4}$
 $\frac{1}{x^2-2x+1}=\frac{1}{x^2-2x+4}=\frac{1}{x^2-2x+4}=\frac{1}{x^2-2x+4}$
 $\frac{1}{x^2-2x+4}=\frac{1}{x^$

$$\int \ln(x^{2}+2x+10) = 2(-x + \frac{1}{2}\ln|x^{2}+2x+10) = 2(-x + \frac{1}{2}\ln|x^{2}+2x+10) + (-x + \frac{1}{3}\ln|x^{2}+2x+10) + (-x + \frac{1}{3}\ln|x^{2}+2x+10) = -2x + \ln|x^{2}+2x+10) + (-2x + \ln|x^{2}+2x+10) + (-2x + \ln|x^{2}+2x+10) = + x \ln(x^{2}+2x+10)$$