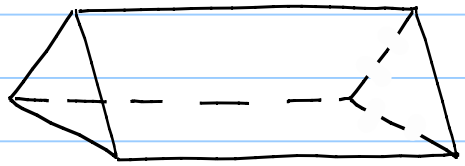
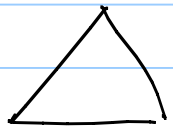
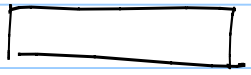
12.1: Surface Areas of Prisms

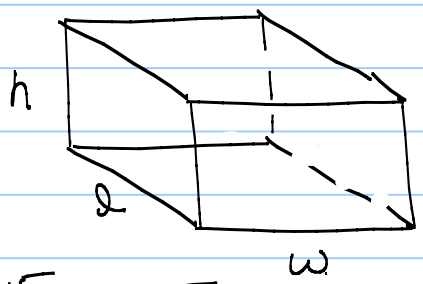
Note Title 2/16/2016



2  bases

3  s

12.1: 1, 3, 6, 7, 9



1 a $l = 15$, $w = 5$, $h = 10$ TSA

h 10 15 (e) h 10 (w 5) l 15 (w 5)

Left & Right · Front & Back · Top & Bottom

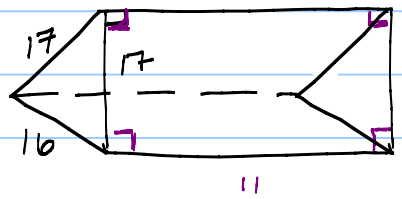
$2(150) + 2(50) + 2(75)$

$2(150 + 50 + 75)$

$2(275)$

$550\ cm^2$

3a) rt △prism



(a) LA: sides

2  + 1 

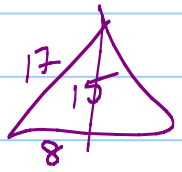
$(10+1)(10+7)$

$100+10+70+7$

$2(187)$

$374 + 176 = 550 \text{ units}^2$

LA is

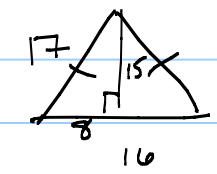
(b) Area of 1 base 

$\frac{1}{2} 16 \cdot 15 = 120 \text{ units}^2$

(3) TSA = 2 bases + LA

$240 + 550 = 790 \text{ units}^2$

2 faces



$2\left(\frac{1}{2}\,16\cdot 15\right) = 240$