Day 2 - Unit 4

13. Alt. Int. Angles (Converse) $a \parallel b$
14. none
15. Corresponding Angles (Converse) $\ell \parallel m$
16. none
17. $\overleftrightarrow{AE} \parallel \overleftrightarrow{FB}$ Corres. Angles (Converse)
18. $\overleftrightarrow{EA} \parallel \overleftrightarrow{FB}$ Corres. Angles (Converse)
19. $\overleftrightarrow{EG} \parallel \overleftrightarrow{AC}$ Alt. Int. Angles (Converse)
20. $\overleftrightarrow{EG} \parallel \overleftrightarrow{AC}$ Same Side Interior (Converse)
21. $\overleftrightarrow{SH} \parallel \overleftrightarrow{TJ}$ Corres. Angles (Converse)
22. $\overleftrightarrow{AS} \parallel \overleftrightarrow{JT}$ Alt. Int. Angles (Converse)
23. $\overleftrightarrow{KN} \parallel \overleftrightarrow{PR}$ Same Side Interior (Converse)
24. $\overleftrightarrow{KN} \parallel \overleftrightarrow{PR}$ Perpendicular Transversal Theorem

(25) Reasons
1) Given
2) Def. of Perpendicular lines
3) All Right Angles are congruent
4) Converse of Corresponding Angles Postulate

(26.) $9x - 4 = 140$
$9x = 144$
$x = 16$

(27.) $8x + 4 = 9x - 11$
$-x = -15$
$x = 15$

(28.) $7x - 1 = 90$
$7x = 91$
$x = 13$

(29) $4 - 5x = 7x + 100$
$-12x = 96$
$x = -8$

(30) $5x + 90 = 14x + 9$
$-9x = -81$
$x = 9$

(31) $178 - 3x = 7x - 38$
$-10x = -216$
$x = 21.6$