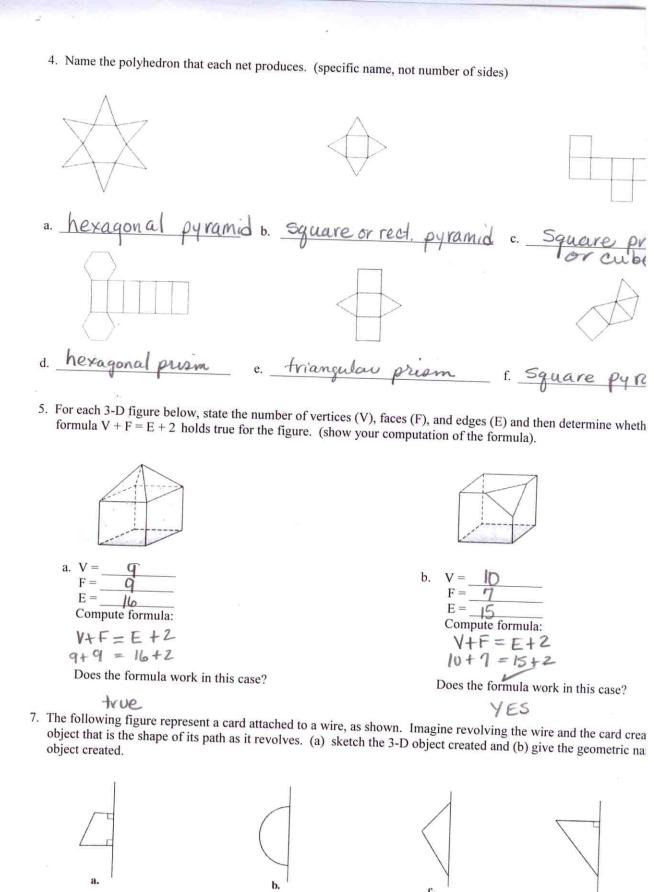
MATH 304 H	IW 11.4 Name SOLUTION KEY	Seat #
1. For each polyhedron shown below complete the descriptions (fill in the blanks).		
a. name Square	b.	c.
# of faces 5	manie rropezoidal prism	name pentagonal pyran
# of vertices_5	# of faces 6	# of faces
# of edges	# of vertices 8 # of edges 12	# of vertices 6 # of edges 10
2. For the tetrahedron pictured at the right:		
(a) Why would	it be classified as a tetrahedron?	W
2+	has 4 faces.	
(b) What shape polygon are the faces? (are they all the same?) $D \leftarrow A$		
i	triangled	R
(c) What is the intersection of face DWA with face DAR? (be sure to include the type of geometric object this is)		
DA it is a segment not a whole line because it is the intersection of triangles NOT of (d) What is the intersection of face WRA with edge DR? infinite planes.		
	point R	
3. Indicate whether each statement is true or false by circling the correct choice.		
True False		
True False	2. Cones and cylinders are classified as polyhedral. Polyhedra all sides must be polygons	
True False	3. The net of a cylinder consists of 2 circles and 1 rectangle.	
True False	4. The net of a cube (square prism) consists of 4 squares.	
True False	5. The height from base to apex of a pyramid is the same as the height of the triangular faces.	
True False	6. There is more than one possible net for any rectangular prism (box-shape). Perpendicular height from	
True False	(true if restricted to a plane, but in space they	
True False	False 9. There is no such thing as a right equilateral triangle. Out have 3 angles all of which are 90° m a MATH 304 Course Packet to Accompany the Required Text by Billstein, Libeskind, and Lott Fall 2010 Dr. Montis p. 76 Frangle.	



two cones

Stacked

cone

truncated

cone

The following figures are not drawn to scale.

XPY and XQZ are straight lines. 1.

PQ // YZ Find $\angle a$ and $\angle b$.

m La = 500 V m Lb = 58°

2. XZS and YZT are straight lines.

XY = XZ

Find $\angle p$ and $\angle q$.

3. ABC is a right-angled triangle.

BCD is an isosceles triangle.

BC = BD Find $\angle x$. MLX=80°

4. PQRS is a parallelogram.

> PQ = TQFind $\angle m$.

m Lm = 820

5. EFGH is a parallelogram. FG = FH

m Lh=66° V

Find $\angle h$.

