BRONX COMMUNITY COLLEGE

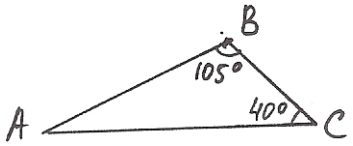
of The City University of New York

DEPARTMENT OF MATHEMATICS and COMPUTER SCIENCE

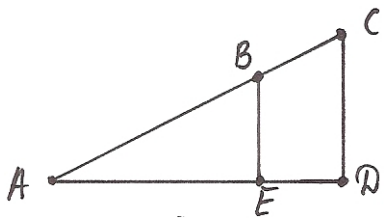
MATH 04

Review for Test 2

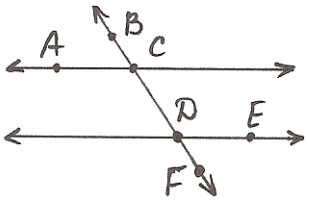
1. Find $\angle A$



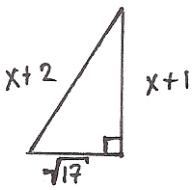
2. If one accute angle of a right triangle is $62°$, find the other accute angle.
3. Given $\overline{CD} \perp \overline{AD}$, $\overline{BE} \perp \overline{AD}$, and $\angle C = 53°$, find $\angle A$, $\angle ABE$, $\angle EBC$



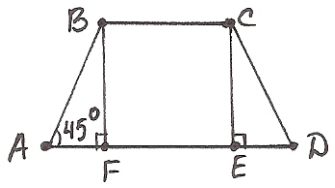
4. Given $AC||DE$ anf $\angle ACD = 140°$, find $\angle CDE$, $\angle EDF$, $\angle ACB$



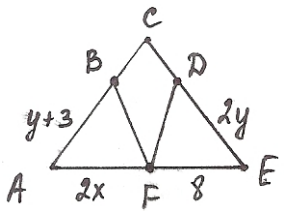
5. Find x (hint: use Pythagorean Theorem)



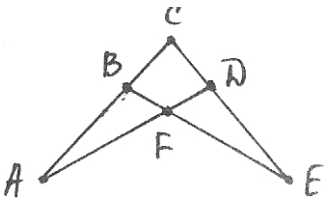
6. Given $\triangle ABF \cong \triangle CDE$, find $\angle D$, $\angle DCE$



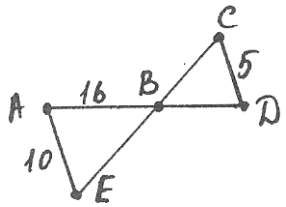
7. Given $\triangle ABF \cong \triangle FDE$, find x and y.



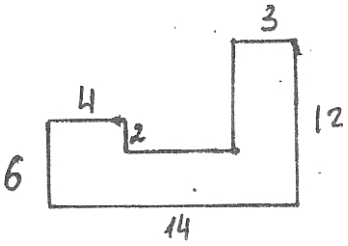
8. $AF = FE$ and $\angle A = \angle E$. Identify congruent triangles and name the property used.



9. Given $\overline{AE} || \overline{CD}$, find DB

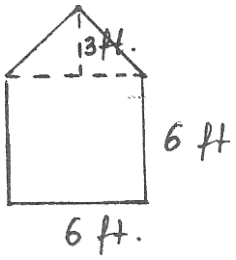


10. Find the distance around the figure.



11. If the area of a circle is 36π sq. ft., find the radius.

12. Find the area of the figure.



13. Find the slope of the line through the points: $(-10, 2)$ and $(-4, -4)$

14. Identify the slope and y-intercept: $y = \frac{2}{3}x + 4$

15. Graph the equation: $4x - 3y = 12$

16. Write the standard form of the equation of the line that passes through the point $(-6, 3)$ and has the slope $m = -\frac{1}{2}$

17. Write the standard from of the equation of the line that passes through the points: $(4, 3)$ and $(4, -2)$

18. Use integer values of x from -2 to $+2$ to make a table of values for the equation $y = x^3$. Graph the points, and draw a smooth curve through them.

19. Graph the inequality $y > \frac{2}{3}x + 3$ in the plane.